

STATE OF CALIFORNIA  
ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF TOXIC SUBSTANCES CONTROL

GREEN RIBBON SCIENCE PANEL  
MEETING

VOLUME II

Cal/EPA HEADQUARTERS  
SIERRA HEARING ROOM  
1001 I STREET  
SACRAMENTO, CALIFORNIA

TUESDAY, NOVEMBER 15, 2011  
8:30 A.M.

APPEARANCESGreen Ribbon Science Panel Members

William F. Carroll, PhD, Co-Chair

Ken Geiser, PhD, Co-Chair

Ann Blake, PhD

Jae Choi, PhD

Bruce R. Cords

Tod Delaney, PhD

Arthur T. Fong, PhD

Joseph Guth, PhD

Dale Johnson, PhD

Richard Liroff, PhD

Timothy F. Malloy, JD

Roger McFadden, PhD

Kelly Moran, PhD

Robert Peoples, PhD

Julia Quint, PhD

Julie Schoenung, PhD

Megan R. Schwarzman, MD

Michael P. Wilson, PhD

Julie Zimmerman, PhD (via webcast)

APPEARANCESDTSC Staff

Deborah Raphael, Director

Odette Madriago, Chief Deputy Director

Kathryn Barwick

Colleen Heck, Senior Staff Counsel

Radhika Majhail

Jeffrey Wong, PhD

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PROCEEDINGS

8:30 a.m.

1  
2  
3 CO-CHAIR CARROLL: All right, ladies and  
4 gentlemen, let's start working our way toward our seats,  
5 please. I would ask you as we're doing this to turn off the  
6 ringer of your cell phone unless you have a really cool ring  
7 tone. Whereupon I'll ask you to have it go off a number of  
8 times just for our own edification. But I'm looking out at  
9 the crowd and I don't think there are any really cool ring  
10 tones out there.

11 (Laughter.)

12 We have one other small wrinkle this morning.  
13 Your budding TV careers have been put on hold for the time  
14 being in that the webcast is down. You all look aghast.  
15 The webcast is down in the entire building so God only knows  
16 what the people out there are going to do for content this  
17 morning.

18 (Laughter.)

19 But having said that I think, you know, we're  
20 certainly working to bring it back up. Just so you know.  
21 Anyway, I've stalled for long enough to get Tim in the room  
22 and I guess we can then start. Radhika, it's all yours,  
23 please, for the ground rules.

24 MS. MAJHAIL: Thank you, thank you, Bill.

25 Good morning, everybody. I am Radhika, again here

1 with you to help you. And the good thing is that none of  
2 my information has changed. The bathrooms are still where  
3 they were last night, the exits are still the same and the  
4 cafe is still downstairs. So if you need any help either --  
5 I can help you. You know, if you didn't see where the  
6 bathrooms were yesterday I can walk with you and show you  
7 where they are.

8 But for people who were not here let me just say  
9 to you the bathrooms are out the door to the left, past the  
10 Byron Sher Auditorium. Fire exits, one behind me, two up  
11 there. And the cafe is still on the first floor.

12 One important thing, we do not have a public  
13 comment period today so we won't be accepting any public  
14 comments from the public at the end.

15 The webcast viewers, as Bill said, they're missing  
16 in action for us right now. I'll keep Bill posted/updated.

17 Whenever I hear that the webcast is up I'll let Bill know.

18 Other than that everything is nice. Let me -- one  
19 more thing. Break, there will be a break.

20 And then Bagley-Keene requirements still apply  
21 today as well so please keep that in mind. And I'll give it  
22 back to Bill.

23 CO-CHAIR CARROLL: Thank you, Radhika. I want to  
24 point out we have one substitution this morning in that Tod  
25 Delaney is here this morning. And we have had a couple of

1 members leave over the evening but it's substantially the  
2 same crowd.

3 Debbie, you have some comments?

4 DIRECTOR RAPHAEL: Thank you, Chair. Good  
5 morning, everyone. It's nice to see all of you back. And I  
6 just want to say that yesterday's discussion was incredibly  
7 helpful and fascinating.

8 When Odette and I sat back and said, okay, what  
9 are the questions that we really want to address with the  
10 Panel, of course we came up with a whole myriad of them. So  
11 we discussed with the co-chairs, if we have to limit it to  
12 three what would it be. And so we selected things where we  
13 had some angst, we had some question about it. We felt like  
14 we had done the best we could but wanted to hear a little  
15 bit more particular feedback. And in fact we got that  
16 wonderfully yesterday so thank you. We have been -- it's  
17 hard not to just want to run back and start debating and  
18 talking about these things. So thank you again for that  
19 incredibly helpful comment.

20 This morning is of particular interest because  
21 this part of the regs is truly new in the sense that we have  
22 a real challenge ahead of us. That intersection between  
23 practical and meaningful is a tough one. And so I am very  
24 much looking forward to your thoughts on how did we do and  
25 where we need to move forward. And I am going to let Bill

1 frame the issue a little bit more, I just wanted to express  
2 my gratitude for your dedication. And at the end we'll  
3 circle back when we talk about Next Steps.

4 CO-CHAIR CARROLL: Thank you, Director. I would  
5 point out to you that in your sheet that you received  
6 yesterday, Questions for Discussion. The question for this  
7 first period of time up until approximately 10:00 o'clock is  
8 the following question:

9 "The decision was made to ensure quality  
10 for the AAs through: (i) DTSC audits; (ii)  
11 creating a certification program for  
12 assessors; and (iii) posting non-redacted  
13 portions of the AAs on DTSC's website for  
14 public review.

15 "Given DTSC's limited resources, is this  
16 approach sufficient to provide meaningful  
17 quality assurance?

18 "What steps could we take to restructure  
19 or supplement this approach?"

20 So I guess what it comes down to at this point is,  
21 points that you would care to make about alternatives  
22 assessment and particularly the process of generating them,  
23 shaping them up and dealing with the data are most in-bounds  
24 for this first session. Although in general if there are  
25 things that you want to contribute about AAs in this session



1 please free to do so.

2           Now, while you're thinking about that and while  
3 I'm waiting to see people's tent cards go up I'll also point  
4 out that after the break -- thank you, Ken -- we have one  
5 more session and that will be a general session. There are  
6 a number of things about the draft discussion regulations  
7 that we didn't have a chance to discuss yesterday. And so  
8 in that last hour and a half those things are in-bounds. I  
9 would ask you to consider not just things that weren't  
10 touched, and I have a couple of them myself, but also any  
11 indicative sort of remarks that you would care to make about  
12 the entire process, those are in-bounds as well.

13           All right, very good, thank you. We have at least  
14 a bit of demand for the floor and I'll take them in the  
15 order that I saw them. Ken, you're first then Mike Wilson  
16 and Julia.

17           CO-CHAIR GEISER: Good morning, everybody. This  
18 is kind of a ringer because Bill and I sort of said, well, I  
19 have enough concern about this area that I'll just pick it  
20 up to get us started.

21           When I reviewed the draft as it's presented now I  
22 was very pleased with most features of it. I had comments,  
23 which I sent to Debbie and the staff. But my greatest  
24 concern focused on this question, on this question about or  
25 issue about the way in which the alternatives assessment

1 quality would be assured by the use of outside staff from  
2 firms and from consulting firms, et cetera.

3 I've had a reasonable amount of experience with  
4 this line of program because the Toxics Use Reduction  
5 Program uses a form of this kind of idea which is sort of  
6 exporting or contracting out a certain part of the law to a  
7 private operation and trying to regulate and manage that  
8 operation in a way that both benefits the firms and the  
9 folks that are really to, in this case, do alternatives  
10 assessment, but in our case do what are known as Toxics Use  
11 Reduction Plans.

12 But on the other hand make sure that the --  
13 there's good quality control and that the agencies that run  
14 the program in Massachusetts learn from what is going on and  
15 become more sophisticated in their own activity as they move  
16 along with the increasing knowledge that has been built up  
17 over the years of how to, in our case, substitute or reduce  
18 the use of specific toxics in production operations.

19 We today have in Massachusetts about, obviously a  
20 much smaller state, much smaller, we have about 550  
21 reporting entities. We have licensed about 230 what are  
22 called Toxics Use Reduction Planners. They used to be  
23 called, by the way, TURPS, but they all hated that term.  
24 And for those of you in the medical community, they know  
25 that stands for something else.

1           But they are very much a part of the program. The  
2 way you become a Toxics Use Reduction Planner is you go to a  
3 training program which is run by the Institute. It's a  
4 reasonably long training program. It lasts -- it used to  
5 last about ten weeks, it lasts about five and a half weeks I  
6 think at this point. You then sit for an exam which is  
7 provided by the state.

8           And then once you are licensed or certified you  
9 need to accumulate a certain amount of continuing education  
10 credits to be re-licensed every two years. And one of the  
11 easiest ways to get those credits is to come to the annual  
12 conference of the Toxics Use Reduction Planners where there  
13 are a whole series of workshops which they can take to  
14 advance their knowledge and also gives us, the people who  
15 run the program, the chance to really meet with them, learn  
16 from them, hear what's going well, hear what's not going  
17 well, learn about new technologies. And all of the kind of  
18 general learning that has really built the program into  
19 being a sophisticated program.

20           Now that can't be translated directly into  
21 California. California is much larger. It's really --  
22 planning is one thing, alternatives assessments are another  
23 thing. The Department doesn't have the resources that we  
24 have even in a relative way for managing the program because  
25 we actually have a fee structure that actually supports the

1 program and this legislation did not provide a fee  
2 structure. So, you know, the Department is much more  
3 constrained.

4 But I will say a couple of things about what I am  
5 concerned about with the plan that has been put forward in  
6 this, in this version and also make some recommendations of  
7 what I think can be done in this context.

8 I am concerned that there is going to be too many  
9 accrediting bodies and that they are going to be accrediting  
10 a lot of assessors who are doing wildly different things.  
11 They're going to get trained, obviously, by these  
12 accrediting bodies but the Department has little to say  
13 about that training. They are actually going to be  
14 certified by the accrediting body, not by the state.

15 And they will be doing their work -- and the way  
16 in which the regulation at the moment sets up very good  
17 qualifications for both the accrediting body and the  
18 assessors, which I would call input kind of criteria but no  
19 output criteria that is to really examine whether an  
20 accrediting body is actually performing its function well or  
21 that the assessors are performing their functions well.  
22 There is no way to have accountability back other than the  
23 checking of the alternatives assessment.

24 And the alternatives assessment. Maybe there's  
25 going to be a few. I think there's going to be a lot.

1 Which means the Department is going to be not only dealing  
2 with the responsibility in a short window of time of  
3 basically approving or disapproving a large number of  
4 alternatives assessments but also really trying to deal with  
5 the variable quality and in a situation of having to reject  
6 a bunch because they didn't meet the standard and then  
7 trying to deal with the rejections and learn why.

8           Was it because the accrediting body wasn't doing  
9 the proper training? Was it because it's just the distance  
10 between the Department's obligation to run a sophisticated  
11 program and the actual work of doing the alternatives  
12 assessment is so long, the arm is so long, that I'm fearful  
13 that it's going to be very burdensome. And there's going to  
14 be a lot of embarrassment in the sense of firms getting  
15 their alternatives assessment rejected when they thought  
16 they were doing the right thing. I'm just really concerned  
17 this is a weakness in our program.

18           And I can say a few other things. Of course the  
19 idea that the alternatives assessment will be put up on the  
20 web with redacted parts for the confidential business  
21 information as one way to check quality. But I'm concerned  
22 about that because either some firms are going to redact  
23 everything and it's going to be really embarrassing and all  
24 or there's just going to be an unwillingness to really make  
25 the alternatives assessment very sophisticated because

1 people know it's all going to be revealed. So the incentive  
2 is to not say very much because who knows what somebody is  
3 going to say.

4 The audits I think are a good idea but for a well-  
5 funded agency. I'm worried that out of the things an agency  
6 strapped for resources would cut its audits. It would be  
7 the thing you would most likely think about. So I'm  
8 worried. I think we need a different approach here.

9 So let me suggest a couple of ideas. First of all  
10 let me just say, I am not a fan of the third-party  
11 certification that was in the earlier version. I think this  
12 version could work with a few, a few minor adjustments or a  
13 few adjustments I would suggest.

14 One is I think that the number of accrediting  
15 bodies should be limited to like maybe four or something  
16 like that and have people compete for the right to be an  
17 accrediting body for the state. But that would create a  
18 more cohesive group of accrediting bodies so that the  
19 Department can work with them to really make sure that  
20 everybody is in alignment.

21 Secondly, clearly accrediting bodies are going to  
22 charge fees to do the training and to do the certification.

23 I know this is not in the law but should any of that be  
24 passed back to the Agency so that the Agency actually has  
25 some revenue off of this to actually be able to do anything

1 with it? There's very few places where there's any revenue-  
2 generating capacity. But somebody is going to make money  
3 off of this, if nobody else than the assessors themselves  
4 are going to charge a fee to do an alternatives assessment.  
5 And how are those fees going to be structured? Is there  
6 going to be a lot of variation in those fees, are they going  
7 to be undercutting? I mean, yes the market is great but the  
8 market can also do perverse things so I'm worried about  
9 that.

10           The second thing I would think about is the exam  
11 for certification should be a common exam, which the  
12 Department works with the accrediting bodies to develop so  
13 that everybody is being examined to meet the same  
14 qualifications. We use a narrative exam in Massachusetts,  
15 which kind of creates case study problems that an assessor  
16 would have to face, as a way to see whether they get not  
17 only the kind of words of the laws but also get the spirit  
18 of how they actually would perform in making an alternatives  
19 assessment.

20           I think that there should be some kind of -- now  
21 this doesn't have to be in the regs but I would hope there  
22 would be a conference, an annual conference of assessor or  
23 accrediting bodies on assessors such that there is a major  
24 place to meet and talk about people are learning so that  
25 there's really, that it really empowers both the assessors

1 themselves but also the Department in its knowledge about  
2 what's going on.

3 I think those are some of my thoughts about it.  
4 And I think this could work but I think it needs to be  
5 tightened in making its way. So those are my thoughts.

6 CO-CHAIR CARROLL: Very good, thank you, Ken.  
7 Mike.

8 PANEL MEMBER WILSON: Thank you, Chair. I had a  
9 number of similar concerns around professional  
10 accountability and educational standards and certification  
11 and licensing, if you will.

12 It's similar in ways to industrial hygiene and  
13 safety engineering education that has now developed a field  
14 of professional practice that, as Ken is saying, includes a  
15 standard body of knowledge that everyone understands is part  
16 of that professional field. I have a point but first I have  
17 a question for you, Ken. For the 230 Toxics Use Reduction  
18 Planners, who do they work for once they have completed the  
19 program? Are they part of the companies? So companies send  
20 them to the educational program?

21 CO-CHAIR GEISER: Originally there were two kinds,  
22 there were so-called in-house and out-of-house. In-house  
23 were in the companies. They did not have to go through the  
24 same training. Today many companies send their in-house  
25 people to it so it's a little hard to describe the exact --



1 Some are in-house private consultants.

2 PANEL MEMBER WILSON: But then the state of  
3 Massachusetts issues the certification?

4 CO-CHAIR GEISER: Yes.

5 PANEL MEMBER WILSON: Okay, great. So one of the  
6 things that we're involved with with your sister agency, the  
7 labor and employment agency, is a process that California  
8 went through during the later half of the Schwarzenegger  
9 administration where they essentially contracted out the  
10 process of training contractors for public works projects.  
11 There are tens of thousands of public works projects across  
12 the state that are, you know, that occur within school  
13 districts and fire districts and all the state and local  
14 agencies and so forth.

15 Every contractor that wants to bid on that project  
16 needs to understand a large body of labor law, Cal-OSHA  
17 regulations, wage and hour issues and so forth that  
18 sometimes can be unique to those districts and everything  
19 else. It's a fairly extensive training program that these  
20 contractors need to go through.

21 That process was privatized and externalized, if  
22 you will, by the Schwarzenegger administration, in part  
23 because the Department of Industrial Relations was having,  
24 was overwhelmed with training needs and they recognized that  
25 their ability to communicate effectively to these

1 contractors was not up to standard. They essentially had a  
2 checklist that contractors certified that they understood all  
3 Cal-OSHA regulations and so forth. And they wanted to  
4 increase their capacity to do that, the DIR did.

5           It turned out that that process became -- lacked  
6 accountability, it lacked transparency. The Department  
7 didn't have the ability to track the quality of the training  
8 across the state by multiple kinds of contractors. Now just  
9 a month and a half ago the Brown administration signed a new  
10 piece of legislation that returns all of that work back to  
11 the Department of Industrial Relations.

12           Now DIR is developing a standardized training  
13 program that then gets rolled out across the state that will  
14 go to what are called awarding bodies who will be trained in  
15 a standardized way. But then there's accountability and  
16 auditing and so forth so everyone from, you know, Tulare  
17 County to Imperial County understands a similar body of  
18 knowledge. And there's a standard training criteria and  
19 professional standards and so forth.

20           So that's -- it's a useful lesson in something  
21 that we have been through over the last eight years or so  
22 around -- some think it's sort of similar. And so my, I  
23 guess, my concern of this was very similar to Ken's around  
24 the accountability around professional standards,  
25 educational criteria and continuing education advancing the

1 knowledge that this is an evolving field. And it's going to  
2 have new science that's useful, applicable every year and we  
3 want to be able to communicate that to the assessors. So,  
4 that I think, is just an overall concern that those aspects  
5 need to be improved.

6           You know, I share the concern around the fee  
7 structure issue. That, you know, through the Center for  
8 Occupational and Environmental Health at UC Berkeley we run  
9 continuing education courses for industrial hygienists and  
10 safety engineers and so forth. And we charge for those, you  
11 know, to keep the operation running. And so it makes sense  
12 to me that this would be, that the training can and should  
13 be a fee-based structure and that in some form that could  
14 help support the program within DTSC. Thanks, Chair.

15           CO-CHAIR CARROLL: Certainly, go ahead.

16           DIRECTOR RAPHAEL: So Mike, do I hear you say that  
17 you are recommending that we do not use external bodies?

18           PANEL MEMBER WILSON: No.

19           DIRECTOR RAPHAEL: I heard your fears but, you  
20 know, in the example that you gave. What would thinking  
21 about -- I mean, I didn't hear that recommendation from Ken  
22 so I'm just curious.

23           PANEL MEMBER WILSON: Do you mean in the -- you  
24 mean external bodies who would be sort of assessors.

25           PANEL MEMBER JOHNSON: Accreditation.

1           PANEL MEMBER WILSON: No, I think it makes sense  
2 to -- external being members within companies who would  
3 become trained in alternatives assessment.

4           DIRECTOR RAPHAEL: No, I'm sorry, I just -- it  
5 sounds like by your example that you feel like it's a fatal  
6 flaw perhaps to contract out the accrediting body concept,  
7 that it really should be within DTSC. And that the fees  
8 should then all come to DTSC rather than contracting out the  
9 accrediting body function.

10          PANEL MEMBER WILSON: I see. I didn't quite state  
11 that. I don't think it makes sense for DTSC to try to mount  
12 this entire training program and train DTSC staff to do  
13 alternatives assessments across the state of California with  
14 all these businesses, that doesn't make sense I don't think.

15                 My example with the Department of Industrial  
16 Relations was they set the standards for training, they  
17 provided the vehicle for accountability and professional  
18 standards. They trained the trainers and they contract out  
19 for training of trainers. And those trainers adhere to a  
20 set of standards that everyone recognizes. And there are  
21 professional criteria if you want to be -- if you want to  
22 work with the state of California on public works projects  
23 you can go through this training and you can, and you can  
24 take on that responsibility. But it's much more  
25 accountable. And there are professional standards and

1 guidelines and curricula, actually.

2 CO-CHAIR CARROLL: Very good, thank you, Mike.  
3 Julia and then I have Meg and Bob.

4 PANEL MEMBER QUINT: I agree with much of what Ken  
5 and Mike said. I think the uneven part of all programs like  
6 this is the training. And even if you have a robust  
7 certification program it will be uneven in terms of what  
8 comes out the other end. So in other words, the AAs  
9 performed by the certified assessors, even after they have  
10 been examined and passed the exam, it's going to be uneven,  
11 it's just the way it is.

12 I would like to see more emphasis placed, and part  
13 of this is a clarification question. There is a review by  
14 DTSC of the AAs from the front end. You know, it's the  
15 report and you're monitoring the AAs. Am I correct in that,  
16 that's written in? I don't know how, Odette.

17 CHIEF DEPUTY DIRECTOR MADRIAGO: Oh, I couldn't  
18 tell if you wanted a response or not.

19 PANEL MEMBER QUINT: Well yeah, please, because  
20 that is going to be predicated on what I say to that.

21 CHIEF DEPUTY DIRECTOR MADRIAGO: I don't know from  
22 the front end. We will be looking at the report, the  
23 preliminary report, final report, for, you know, consistency  
24 with the regulation. And we will be doing back-end audits.  
25 I think it will be in the audits where we will do a much

1 deeper dive than we will in the reports themselves.

2 PANEL MEMBER QUINT: Okay, because that was my  
3 point of confusion. Because I thin the hard part about an  
4 alternatives assessment that we link in all of this is the  
5 amount of expert judgment you have to do in terms of the  
6 assessment of the toxicological, you know, the data. There  
7 is scarce data involved and, you know, the data are not  
8 particularly good for a lot of chemicals, it's missing. And  
9 there is a lot of expert judgment involved in whether or not  
10 you deem something, you know, safe or not safe, you know,  
11 regardless of the evidence criteria that are in the hazard  
12 traits regulation.

13 So I think, you know, if DTSC is going to put  
14 resources, if there are resources to be had or found  
15 anywhere, I think it would be wonderful to have some  
16 assistance. Because you will be looking at all of these  
17 AAs. For products there will AAs on, you know, the same  
18 products by different companies.

19 And, you know, waiting until people have gone  
20 through all of this work -- as Ken said, it's going to be  
21 very disappointing when they put their best effort forward,  
22 they trained assessors and they're certified and all of  
23 that, and then, you know, because of the weakness of the  
24 science and because it's just the way toxicology is, we  
25 don't have a lot of answers, we don't have a robust data on

1 all of these things, I think it would be much better to  
2 start flagging things at the front end rather than the back  
3 end. Even when you do audits.

4 I mean, it will make everything -- and DTSC will  
5 learn from this process. You will learn the difficulties  
6 with, you know, alternatives assessment from all of these  
7 various -- on different products made by different people  
8 and how people do them differently. So, you know, if by  
9 some magic wand we could have resources in addition to the  
10 accredited bodies and all of that, I would try to get some  
11 assistance with, you know, looking at things as they come  
12 in, both the preliminary and the final report, and catch  
13 inadequacies there.

14 CO-CHAIR CARROLL: Thank you, Julia. Meg.

15 PANEL MEMBER SCHWARZMAN: Thanks, good morning. I  
16 have heard a lot of things that are really, that I would  
17 generally just completely agree with and it's helped me  
18 realign how I'm seeing this and so I can say in general I  
19 agree with what I've heard from Ken and Mike and Julia.  
20 Which makes me thin about a resource that the state of  
21 California has already that I think meets all these  
22 requirements, which is the UC Extension Program.

23 For example, so UC Extension has very much the  
24 structure that we're calling for in the accreditation  
25 bodies. Not as the assessors but as accreditors. They're

1 used to developing professional education programs,  
2 certification programs. They're connected to campus.  
3 Several people in this room sit on the advisory committee to  
4 UC Extension in developing the curriculum for their green  
5 chemistry certificate, which they have been developing over  
6 the last few years. So they have access to professors and  
7 researchers on campus for developing curriculum.

8 But then they have the structure and the  
9 experience with providing the professional education and  
10 granting certificates and all that and they have a fee  
11 structure and I can easily see how that could be -- I think  
12 the suggestions are excellent that that -- some of those  
13 fees obviously support, which is the UC Extension model,  
14 supports the development of the curriculum and the offering  
15 of it. But that maybe also goes back some to DTSC to help  
16 fund the evaluation, ongoing evaluation of the accreditors  
17 and potentially the auditing of the assessments. So that  
18 seems to me one vehicle for how to accomplish this in the  
19 state is through the UC Extension program or the whole  
20 infrastructure.

21 And then there's two other things, two things  
22 about that. One is that there was something that I saw that  
23 was really excellent in here that was clarifying that the  
24 accrediting body should have no economic interest in the  
25 outcome or who gets certified as an assessor or all of that.



1     So I think that's accomplished by using the UC Extension.  
2     And I have no financial stake in the UC Extension. They  
3     don't employ me; I volunteer my time on their advisory  
4     board.

5             And the other thing is, I then think about the  
6     next stage of implementation which is designing the training  
7     and the accreditation program, and that's what Julia brought  
8     up issues about. And I can see a natural connection between  
9     the design of the curriculum and the AA guidelines that the  
10    Department is going to create. So the Department thinks  
11    about "will be" in developing the guidelines or the guidance  
12    documents. The AAs they want to see. And then from there  
13    the guidance documents that will create the kinds of AAs  
14    that you need. And from there we work backward to the  
15    accreditation curriculum and exams and that kind of thing.

16            And I like Ken's idea of an annual CE. And that's  
17    all consistent with the kinds of programs that UC Extension  
18    already runs. I'm not just talking UC Berkeley but, you  
19    know, UC Extension statewide.

20            I also wanted to make one comment in the  
21    description of the qualifications of accreditation bodies in  
22    the regulation,, which is page 60 of the current version.  
23    And that is (a), the very first section there says that the  
24    accreditation body needs to have on staff one or more  
25    individuals that possess all of the following. So "all of

1 the following" is a good list.

2 But coming from the medical profession I can say  
3 that there are some situations -- for example, in overseeing  
4 nurse practitioners there has to be a physician who  
5 ultimately is accountable for everything that a nurse  
6 practitioner does. And so the presence -- including every  
7 prescription written and every treatment given or not given.

8 And I have at times served in that function and I have at  
9 times turned that function down because I felt like I didn't  
10 have enough -- there was going to be too much independent  
11 operation and I didn't want to be responsible for all of the  
12 prescriptions written by the nurse practitioners in that  
13 organization.

14 So I don't think it's enough to say there must be  
15 one person on the payroll of this organization that has  
16 these qualifications. There also has to be a structure for  
17 involvement of that person and their expertise in the actual  
18 functioning of the organization.

19 CO-CHAIR CARROLL: Thank you, Meg. Bob.

20 PANEL MEMBER PEOPLES: Thank you, Chair. First I  
21 want to speak to the question, and in general start by  
22 saying, yes, I think this is a good place to start. I think  
23 a lot of very complex issues, concepts, ideas and challenges  
24 have been distilled into a reasonable road map to get this  
25 process off the ground. I think you learn as you go.

1           A few questions and comments along the way. First  
2 in the, in the introduction to the question the posting of  
3 non-redacted portions is mentioned. Do you have established  
4 guidelines for what and how you go about redacting  
5 information to guide that process?

6           MS. HECK: Yes we do, we have both the substantive  
7 rules that had come out of the -- California has adopted the  
8 Uniform Trade Secrets Act. So there's this whole body of  
9 law that's grown up around what may be claimed as a trade  
10 secret. And in addition we've set up what I would just  
11 call, modest housekeeping rules. For how when claims of  
12 trade secret protections such as prominently marking each  
13 page on which the provision is claimed to have come under  
14 the privilege, et cetera.

15           The trade secret article itself in these proposed  
16 regs you'll see runs a whopping total of three to four pages  
17 and one of those pages has to do with how one justifies the  
18 claim. The level of evidence or facts that are required to  
19 show that in fact the material has been treated as though it  
20 is distinct from everyday business information.

21           PANEL MEMBER PEOPLES: Okay, thank you on that.  
22 And I guess just from a philosophical point of view, I think  
23 part of this exercise is to raise the bar. So we need to  
24 challenge ourselves to think about how we can provide more  
25 transparency in the process while still respecting

1 legitimate claims for CBI. I think it's been mentioned by  
2 this Committee on numerous occasions, modern analytical  
3 technology makes it possible to pretty much figure out  
4 anything and everything that's in anything in a relatively  
5 short period of time. So some of those claims are based on  
6 past precedence that probably wouldn't stand the test of  
7 good science today.

8           So let me move on and ask you also a clarifying  
9 question here on -- let's see. Let me get to the right spot  
10 here. I'm looking at page 7 of the summary document, 7 of  
11 16. Where the third bullet says -- sorry, the second bullet  
12 says: "(ii) Dispersed as an aerosol or a vapor." My  
13 question is simply, is this meant to include, since it  
14 speaks to formulated products, the concept of spray cleaners  
15 for surfaces, kitchens, commercial food prep services and  
16 that? Because you have a separate, a separate bullet (iii)  
17 that applies to hard surfaces with the likelihood of runoff  
18 or volatilization. Which to me is an outdoor application  
19 consideration.

20           CHIEF DEPUTY DIRECTOR MADRIAGO: I'd have to think  
21 about that. Maybe there's some overlap in those two.

22           PANEL MEMBER PEOPLES: Well, so my only suggestion  
23 would be that if there is any confusion to help minimize it  
24 you may want to include something about surfaces in the  
25 second bullet, okay.

1           Let's see. I wanted to go back to some of the  
2 discussions about the AA accreditation. First of all I  
3 think some of the things that Ken outlined and I think that  
4 Michael built on are very positive. This old idea of TURPs,  
5 sorry to use that name because I don't remember the new one,  
6 I think is a reasonably good one. Probably the nomenclature  
7 needs to get changed a little bit.

8           I want to bring up in the context of that  
9 certification process and the submission of data a thought  
10 that I offered a couple of meetings ago. And that is, at  
11 the end of the day when these things are submitted for  
12 review, I think it makes a lot of sense to have an officer  
13 of the company sign the document. That adds an element of  
14 review expectation that things have been done thoroughly,  
15 completely and consistent with the spirit of the regulation  
16 that we're trying to implement here.

17           One more comment and that is on page 6 of the  
18 Attachment 2 in the summary notes that you provided. It  
19 talks about availability of information that is necessary to  
20 substantiate potential adverse impacts and exposures. It  
21 has been referred to many times but, you know, what is the  
22 consideration for how to handle a lack of information?  
23 Which in my mind is probably going to represent the majority  
24 of the cases in many of these chemicals of concern. And to  
25 simply say there is no information, therefore there is no

1 basis for a judgment is probably not acceptable in the  
2 spirit of what we're trying to do here going forward.

3 I believe I read that one of the regulatory  
4 responses is to request additional information. And with a  
5 request like that I think there needs to be consideration of  
6 who and how that gets funded. And the answer to that is  
7 probably fairly obvious. And also how long it takes to  
8 generate that kind of information because some of these  
9 studies can be, you know, rather long-term and what does  
10 that do to the timing of the cycle for, you now, the  
11 alternatives assessment that is taking place. And  
12 Mr. Chair, I'll stop at that point.

13 CO-CHAIR CARROLL: Thank you, Bob. I have Jae and  
14 Tod and I'll take a turn at that point and then Kelly.

15 PANEL MEMBER CHOI: Thank you, Chair. I have a  
16 couple of comments and suggestions I'd like to make. I  
17 think Mike and also Ken about this -- Ken's idea about the  
18 limited accrediting body versus external and internal  
19 sourcing. Having a limited body, accrediting body, I think  
20 is one of the best ways to prevent so-called -- the concern  
21 that Mike expressed from, you know, the former  
22 administration.

23 Because I'd like to take some examples of like  
24 states where Indiana or the city of Indianapolis, you know.  
25 They have been doing this external, not only auditing but

1 also even nowadays highway infrastructure is really  
2 outsourcing rather than, you know, by federal government  
3 and/or state government. So there is examples of how  
4 successfully run this kind of credit for accrediting body.

5 So I'd like to consider DTSC should have some  
6 control of limiting the number of accrediting bodies. In  
7 doing so I think we can increase the transparency as well as  
8 the efficiencies of controlling the accrediting bodies.

9 The second comment I have is some concern of --  
10 Ken made remarks in terms of so-called surprising effect  
11 from the party of applicants or the companies. Without  
12 updating the status of progress of their assessment of the  
13 chemicals of concern in their product or formulations.

14 I'm not sure what the DTSC is considering in terms  
15 of this website utilization. As a private company we deal  
16 with a lot of custom escalation, for example. And one of  
17 the most complaints from customer point of view is that we  
18 as a company, if we don't update them, the progress of their  
19 escalated issues or problems. Although they do not expect,  
20 you know, we deliver the solutions every issue and complaint  
21 they brought up. But important thing is really update the  
22 customer the status so that where they really stand their  
23 applications.

24 So when you design the website, probably include  
25 so-called on-boarding or updating checklist. Very short, it

1 doesn't have to be -- because you have structured it very  
2 well the way that I read. But it does so that automate the  
3 update information goes out to that particular customer, in  
4 this case Applicant. And you can update it. You don't have  
5 to wait 180 days or 12 months or whatever. But at least  
6 automated message going out saying, okay, where you stand.  
7 So that they know, they do not have a surprise when DTSC  
8 finally deliver the approval status. So that's my comment.

9 CO-CHAIR CARROLL: Thank you, Jae. Tod.

10 PANEL MEMBER DELANEY: Thank you, Chair. I'm just  
11 reading the first line in terms of the qualification and  
12 certification of assessors and I have been really driven to  
13 a couple of words where it says "an individual in  
14 responsible charge of conducting." Which when you look at  
15 all of the requirements for that individual, we know that no  
16 single individual as an assessor is going to be able to do  
17 the alternatives assessment for anything other than a very,  
18 very simple product.

19 This following on from this reminds me very much  
20 of -- I have a professional engineering license that I have  
21 in a number of states. And it reminds me very much of that  
22 because I am the principal responsible person in charge,  
23 although I have a team of individuals that work under me.  
24 And on that basis I would really like to see just one  
25 accreditation body to make sure that you would have a



1 consistency across all these things.

2           The other thing though that I think you have to do  
3 is in 2(a) there have an equivalent of four years of  
4 professional experience. That is not sufficient for a  
5 management individual to run a AA. It's just not enough  
6 time for an individual to be in a management level to know  
7 what they don't know so that they have the right people on  
8 their staff. And so other than that from a broad thing, if  
9 I look at it as being almost like a P.E. And when you read  
10 this that's the way it comes out, that you really need only  
11 one accreditation. But you are also going to need to have  
12 something in there with management experience and you're  
13 going to have to have something in there that's larger in  
14 terms of time for that individual that's in charge. Thank  
15 you, Chair.

16           CO-CHAIR CARROLL: Thank you, Tod. I have put  
17 myself on the list at this point and I wanted to make a  
18 couple of points. Particularly going to the idea of  
19 conflict of interest, which is expressed in the reg as a  
20 financial conflict.

21           And if you go back and look at the definitions,  
22 the bar for financial conflict is extraordinarily low, as  
23 low as \$2,000. That's hardly workable in these days. The  
24 way it's written it appears to me that any organization that  
25 in fact ever did business with a company that manufactures a

1 chemical of concern might be disallowed from being a  
2 certifying organization, which would leave out a number of  
3 consulting firms that in fact have this kind of expertise.

4           And so what I would say is, is what you're really  
5 trying to get at if you use this is not just financial  
6 conflict but conflict of interest? And there are other  
7 conflicts other than financial. So for example, would you  
8 also disallow organizations that are advocacy organizations  
9 that have advocated about particular chemicals over the  
10 course of time? I would argue that presents the same kind  
11 of conflict as a nominal \$2,000 investment in a company  
12 presents.

13           So what I am really coming to is I think the  
14 conflict of interest part of this unnecessary. That if you  
15 found either one or many potential certifiers, that there  
16 are far better ways of determining whether they are  
17 qualified to train people to do this work, not do the work  
18 themselves necessarily but qualified to train people to do  
19 the work. And I think that that part of it, understanding  
20 the point of view, that conflict might be more important in  
21 the lead assessor, but certainly not from my perspective, in  
22 the trainer.

23           Now I want to take one step downstream. I  
24 disagree with Ken in that I think there will be relatively  
25 few of these early on because of the uncertainty associated

1 with it. My belief, and it's only a belief at this point  
2 because at this point we're speculating. But my belief is  
3 you'll see relatively few of these except for people who  
4 have no choice.

5           And as a result I suspect that they will trickle  
6 in rather than, rather than to be a deluge. And the reason  
7 for that is I think people would much rather do things that  
8 they can control and have more certainty over. And frankly  
9 the AA process appears to have a lot of uncertainty  
10 associated with it. Because of its nature, because you're  
11 doing something new and despite the analogies. And I'm  
12 compelled by what Tod said about the analogies to a P.E.

13           I think you ought to take a 20-year view of this  
14 process and have a bit of launch and learn associated with  
15 it to recognize that you're going to be seeing some of these  
16 trickling in; you're going to see if you're getting what you  
17 want. And you will be able, because it's in a regulation --  
18 if you design it correctly I believe you will be able to  
19 modify what you want and what you get over the course of  
20 time as you see the way this is evolving.

21           There is a bit of flexibility that has been  
22 written into this anyway where you may have alternative  
23 approaches to what's been suggested. And that's good. But  
24 judging how those alternatives, whether those alternatives  
25 are to the point or not is also going to require some

1 experience and you're not going to be able to tell people  
2 exactly the right way to do that.

3           So I guess if this were mine to do unilaterally  
4 the approach that I might take would be either to have one  
5 training organization, as Tod suggests, or not worry about  
6 it and allow organizations that do this to hang out their  
7 shingle and train. And make the state's choke point at a  
8 certification exam for an individual assessor in much the  
9 same way as there is a P.E. exam.

10           And from there decide after three to five years  
11 whether you're seeing what you need, if you're getting what  
12 you want, if there is a further modification that's  
13 required. If CE courses are developing along the way to  
14 feed this ecosystem that you're creating.

15           I think it would be a mistake to try to have this  
16 perfect on day one. I think this is one that truly lends  
17 itself to evolving over a 10 to 20 year time period to get  
18 it where you want. Thank you very much.

19           Let's see, where are we? Kelly, I have you and  
20 then I'm going to take Tim, Joe and Art because they haven't  
21 spoken yet, Mike, before I get back -- and Ann. I'm going  
22 to hold you for a second intervention, Mike, if that's okay.  
23 Go ahead, Kelly.

24           PANEL MEMBER MORAN: Thank you, Chair. Looking at  
25 the Department's questions again, given DTSC's limited

1 resources is the approach sufficient to provide meaningful  
2 QA and what steps could we take? I think in general the  
3 Department is trying to do the best it can within its  
4 resource structure here so the general approach here does  
5 make sense to me.

6 I really appreciate Ken's comments, I guess, in  
7 the -- Ken, sort of where all that falls, Ken versus Bill, I  
8 guess I'm more in the Ken camp in that I have watched a lot  
9 of people go through the P.E. exam process. You know,  
10 people are taking huge amount of time off work, they're  
11 doing all these things, it's not -- it's very disruptive.  
12 And I am not sure that we're ready to go to that high of a  
13 bar right away on a new kind of program.

14 So I can see that strategy but I'm thinking that  
15 this is going to be largely development. It's a  
16 professional development course. That's really what we're  
17 really going to need to do for the first decade. And in  
18 that sense I think we need to build a cadre of  
19 professionals. And I think we do that better by having one  
20 or a couple of organizations that are dedicated to doing  
21 that than we do by saying, it's a free-for-all, figure it  
22 out. And if we do the it's a free-for-all then the state  
23 has to figure out who is certifying, which trainings and all  
24 the rest and it still is a mess.

25 So I guess I just, I tend to fall more towards the

1 Ken model. But I think that it's not impossible that some  
2 day it would move more towards the P.E. model that Bill  
3 described so it's not all there.

4 Also I agree with the requirement for the officer  
5 signature. It has been my professional experience that that  
6 has been very important. In my work in local government  
7 that was exceptionally important in making sure the right  
8 level of attention was paid and the right company commitment  
9 was provided.

10 And I also agree, I'm not sure who made this  
11 comment, but about how much experience a lead assessor  
12 needs. I would really think that the person who is actually  
13 running the project might need ten years of experience. You  
14 could take away some of that for advanced education. But  
15 this is a complicated thing, it covers a lot of areas, and  
16 it's not something with a few years out of school is going  
17 to be able to be the boss of, as opposed to on the team for.

18 And then finally actually back to the assessor  
19 qualification, one more reaction. Which is that I think  
20 that it's going to be really important that people trust the  
21 qualifying organization. And that's something we're all  
22 kind of dancing around here. And that's not just industry  
23 trusting it, it's also the environmental community and  
24 others trusting it. The state is going to have the ability  
25 to say it's okay or not so they'll need to trust it.

1           And that's why I think conflict of interest is  
2 important. So I agreed with all the first parts that Bill  
3 raised about what is a conflict of interest but again I fall  
4 on the need to make sure that we have an organization that  
5 feels as independent as possible. And that is a little  
6 complicated because when I started reading this I was  
7 thinking about, well who serves on the Board? And you don't  
8 want any advocacy organization to have that role of  
9 certifying assessors, that would just be totally  
10 inappropriate.

11           So I don't know exactly how we write that in and  
12 what models there exist in the law to make sure that DTSC  
13 has the ability to select organizations that are really  
14 going to be trustworthy from all different viewpoints.  
15 That's I think what we're looking for.

16           And back to just the main thing. I think that the  
17 place where I'm really stuck on this is the fact that DTSC  
18 doesn't have enough budget to really do a robust plan review  
19 and auditing program. And that's why the previous versions  
20 had that third-party review and I understand the basis here.

21           I'm not supportive of the approach the Department is taking  
22 now based on what I have heard in terms of the feedback on  
23 that.

24           But what worries me about it is that that's a --  
25 because the Department doesn't have a lot of resources we

1 wind up with not having a level playing field among folks  
2 who are doing AAs. That those who are doing a better  
3 quality one versus those who might be doing a more schlocky  
4 one, they might get away with it to some extent because the  
5 Department just isn't going to have the resources to go  
6 through and do everything.

7           So here again is another example where if the  
8 Department had a little more -- since we're falling on the  
9 side of, we really want the Department to be doing those QA  
10 reviews. We're not wanting to have, to privatize that  
11 function; we decided we want to have the Department do that.

12           The business interest may be to actually make sure  
13 the Department has enough funding to do these properly so  
14 that there is a level playing field. Because otherwise I  
15 think it could end up favoring those people who aren't doing  
16 the quality job and that would not be in the interest of the  
17 businesses who are competing with them.

18           And then finally this is a smaller point but I've  
19 had some troublesome experience with it, which is the work  
20 plan piece of the preliminary AA when that comes in. That  
21 is a largely, it's a selection of alternatives largely in a  
22 work plan. And I've seen in the pesticide world this does  
23 not work so well. The pesticide regulators commonly require  
24 work plans out of pesticide manufacturers and you see really  
25 talented people who are really smart giving really schlocky



1 work plans to DPR and then DPR has to spend its staff time  
2 telling the companies what to do.

3 And I'm still trying to figure out exactly what  
4 creates that dynamic. Having spoken with the scientists who  
5 are submitting these plans I know they're fully capable of  
6 submitting very high quality documents and it is a bit  
7 mystifying to me why they don't. There seems to be an  
8 advantage in playing the process out that the pesticide  
9 regulators have to tell them what to do, so they're  
10 perceiving that as an advantage.

11 So I'd caution then in this structure, I think  
12 you've done a nice job with the time frames to make it  
13 disadvantageous to do that. But to think about, are there  
14 other things you could do to advantage those people who do a  
15 good quality document and turn it in.

16 And the only idea I have from -- right now to  
17 suggest to you is that the assessors could be reported for  
18 putting in -- so that there could be some form of, when DTSC  
19 reviews something and sees that either the preliminary or  
20 final AA is not of acceptable quality that there should be a  
21 function for DTSC to be reporting that to the certification  
22 organization and that there be follow-up on that end as well  
23 as with the company that submitted it. So thank you.

24 CO-CHAIR CARROLL: Thank you. I have Tim, Joe,  
25 Art and Ann and then I'll go to second round interventions.

1 Tim, it's yours. Oh, I'm sorry, Dale. It's new, I'm sorry.

2 PANEL MEMBER MALLOY: Thank you. Would it be all  
3 right to ask a clarifying question --

4 CO-CHAIR CARROLL: Absolutely.

5 PANEL MEMBER MALLOY: -- before giving my  
6 comments?

7 CO-CHAIR CARROLL: Certainly, go right ahead.

8 PANEL MEMBER MALLOY: And this comes up in this  
9 conversation about -- I guess some of us, I think, maybe  
10 have different perceptions of what the facts will be once  
11 this program rolls out. So I had a question in terms of  
12 whether DTSC has a sense of, number one, exactly how many  
13 staff or resources would be available for, A, a review, and  
14 then also auditing? And then secondly, how many AAs,  
15 assuming you do the two to four product approach, how many  
16 AAs are you thinking you might see? Because you are all  
17 making certain assumptions and the answer to those  
18 questions, I think are, relevant to how useful this process  
19 would be.

20 CHIEF DEPUTY DIRECTOR MADRIAGO: Okay, in terms of  
21 your first question about number of staff. I don't think we  
22 really have a number right now. That's something we're  
23 working on and part of how we work on that is through our  
24 annual budget process.

25 And in terms of the number of alternatives

1 assessments. I don't have a number for you. And I think  
2 that will depend significantly on the particular product  
3 chemical combinations that we pick. You know, the range of  
4 manufacturers for a given product will vary with the  
5 particular product. But it's obviously something we're  
6 going to have to be thinking about in our planning.

7 PANEL MEMBER MALLOY: Thank you.

8 CO-CHAIR CARROLL: Tim, do you have a statement?

9 PANEL MEMBER MALLOY: I had some comments and that  
10 helped me kind of formulate my comments.

11 CO-CHAIR CARROLL: Okay.

12 PANEL MEMBER MALLOY: But if Ken wanted to  
13 interject --

14 CO-CHAIR GEISER: I just wanted to add one  
15 clarification. And that is, because the program -- I think  
16 the way I remember it, there's a 180 day period between the  
17 identification of the product chemical and the time at which  
18 the preliminary is due. It isn't just the number but it's  
19 the rate at which they come in. After 180 days there's  
20 going to be how many or are they all going to come in at  
21 once?

22 PANEL MEMBER MALLOY: Thank you. When you think  
23 about this question about the certified assessor and the  
24 authority, to me it depends on what you think you want from  
25 a program. And it seems to me there's two different ways

1 one could characterize this program.

2 One would be what I think of as a reflective  
3 approach. That essentially what it's designed to do is get  
4 companies to think about these questions, to perform an  
5 analysis and to act on that analysis. And that the  
6 regulatory framework is all there to provide some push and  
7 incentive to it but the regulatory process is not really  
8 focused on the substantive outcome itself, right.

9 And I got the sense that there's a little bit of a  
10 hybrid there because, you know, at the start of the meeting  
11 I think Odette said how Debbie describes it as, we get the  
12 companies to ask the questions but we don't answer the  
13 questions, the companies answer the questions. But then we  
14 have our regulatory response.

15 So it seems like you're looking for something more  
16 than a reflexive approach where you're just trying to get  
17 them to think. Kind of like -- I don't know if it would be  
18 appropriate to say but the Massachusetts TURA approach is  
19 kind of like a reflexive approach, right? It sounds like we  
20 want something -- and if this was a reflexive approach I  
21 would say the way this is structured is probably fine with  
22 some of the, many of the fine tuning and additional comments  
23 that people had made.

24 If what you're looking for is something more, and  
25 I take it that you are, the meaningfulness part, that

1 there's going to be some oversight of that and some active  
2 push to ensure that safer alternatives are chosen when  
3 they're available. Or that if they're not that meaningful  
4 controls are going to be placed on the continued use of  
5 hazardous chemicals.

6 I'm really concerned about this approach. And not  
7 because of the regulations themselves but because, I mean,  
8 it's like the emperor has no clothes. We're sitting around  
9 this room talking about a comprehensive program for which  
10 there is no information collection authority to speak of and  
11 no realistic funding available. So this is outside the  
12 confines and yet we kind of play around the edges of that.  
13 And I just wish there were an opportunity or a vehicle by  
14 which this Panel could speak not only to DTSC but to the  
15 Legislature and the Administration more broadly.

16 My sense is that when we say things that people  
17 outside this room like, that they'll kind of hitch on to  
18 that and send letters to people and say, you should do what  
19 the Green Ribbon Science Panel is saying.

20 I just wish, and maybe we could talk about this  
21 later today, that there were a vehicle by which we could  
22 address those folks more directly. And if there were a  
23 sense on the Panel that there needs to be some additional  
24 authorities and some realistic funding for the program that  
25 we could make that statement and perhaps that would be

1 listened to as well as some of the other things that we've  
2 said.

3 But we live in the world we live in and I know,  
4 though, I've got to like address the question. So how can  
5 we try to make the second-best solution work? Here is my  
6 concern about what's going on here is that we have seen  
7 programs like this where it's essentially planning programs  
8 with an auditing function.

9 And the one I'm most familiar with is, you know,  
10 facility planning and stormwater pollution prevention  
11 planning. When I was in practice and when I did work with  
12 the clinic at UCLA one of the areas that we knew we were  
13 going to find lots of problems with was stormwater pollution  
14 prevention planning, which had plenty of guidance documents  
15 and lots of trained people to do those plans.

16 And then when you went and looked at them they  
17 were pretty -- many of them were quite, quite deficient.  
18 But the agencies really didn't have enough personnel to  
19 review them and unless somebody kind of highlighted that and  
20 brought citizen suit actions oftentimes things generally  
21 didn't happen; there's exceptions to that and I'm rally  
22 worried that that's what is going to happen to this program.

23 So I think maybe a way to help that, given the  
24 constraints that we have, is with the -- I think all the  
25 suggestions, particularly the ones Ken made about the

1 assessors, I completely agree with.

2 I think focusing on the audit program a bit. I  
3 think it is unclear to me whether the audit program is  
4 designed to engage in substantive review of decisions that  
5 have been made or simply another process review. And the  
6 reason I'm confused has to do with the regulatory language  
7 itself so let me make some specific suggestions about how --  
8 assuming that it's supposed to be a substantive review,  
9 that's my assumption -- some suggestions I would make about  
10 making that clear.

11 If you go look at page 41 of the regulations, that  
12 lays out the standards that have to be met in the second  
13 stage of the alternatives assessment. And by the way, I'm  
14 kind of curious why we call it alternatives assessment? The  
15 statute calls it alternatives analysis.

16 But step two is it talks about evaluating and  
17 comparing priority -- well there's actually some substance  
18 to that because I think the alternatives assessment actually  
19 has some connotations with it and some history and tends to  
20 stop at kind of the performance matrix part of it. It  
21 doesn't really engage in the evaluative aspects that's so  
22 unique here. So I think it might make some sense to stop  
23 using the older term and to kind of brand list with the new  
24 term that's in the statute. But okay.

25 So step two talks about evaluate or compare

1 priority product.

2 Step three says, responsible entities select the  
3 alternative that will replace or modify the priority  
4 product.

5 If you want to have an auditing program that is  
6 substantive I think there has to be some integration into  
7 these provisions of some substantive standards against which  
8 the evaluation will be done and the selection will be done.

9 And I will put my money where my mouth is and -- I have  
10 said this a lot of times and I have never actually come up  
11 with any, I understand that. So I am going to try and come  
12 up with some examples of what I have in mind and send it to  
13 you. I think other folks, if they're interested in this  
14 should also be thinking in those same ways.

15 The other suggestion I have is actually in the  
16 audit provisions themselves that appear on page 65. To  
17 clarify whether this provides the Department with the  
18 authority to not only review but to require changes or to  
19 come to a different conclusion. Right now it says you can  
20 audit compliance with Article 5 requirements. Right now the  
21 Article 5 requirements are all process requirements mostly.

22 Not all but mostly.

23 But then number two says you can audit information  
24 quality and adequacy of analysis and that to me seems to  
25 suggest you're going to get to the substance. If that's



1 what you're trying to get to, in addition to adding  
2 substantive standards that you could assess against I would  
3 also make it clear here that that's what is intended in the  
4 audit.

5           The other specific suggestion I have is that in  
6 your authority for review of preliminary AAs and final AAs  
7 that you also use that language of, is there a deficiency  
8 with compliance. And that to me reads kind of like  
9 completeness determination or process determination. And if  
10 you want to have the substantive ability to require changes  
11 or to come to a different conclusion I think it either ought  
12 to be in that particular provision or it ought to be more  
13 expressing the regulatory response.

14           Because the way regulatory response is written  
15 right now, in a sense it puts us right where we are  
16 currently where it's written as if you can ban certain  
17 products if you feel it's necessary, regardless of what's in  
18 the AA. That's how I read it. But it doesn't give you the  
19 authority to in any way encourage the adoption of a safer  
20 alternative.

21           So if you thought there was a safer alternative,  
22 maybe even one that was identified in the AA, that was  
23 rejected by the other party, it seems to me you have the  
24 authority to ban the product the way these regs were  
25 written. To maybe put the person on the non-compliance

1 list, depending on how you write the standards. Require  
2 engineering controls for the existing product.

3 But I don't see any authority the way this is  
4 written to actually in any way, either directly by requiring  
5 adoption, maybe that's too strong, or indirectly the way the  
6 EPA's SNAP program for ozone-depleting chemicals, where you  
7 have a separate authority where you can approve acceptable  
8 substitutes. So that would be different, right?

9 So one is require people to adopt a different  
10 alternative, which may be too strong an authority for lots  
11 of different reasons for some folks.

12 Or to say, we're going to ban this product and we  
13 have a process in line where folks can come and get approval  
14 for a substitute for that product. And I think there's lots  
15 of experience in the SNAP program as to how that would  
16 function and might work. And it's a way, I think, of  
17 achieving the statutory goal, which is to not have simply  
18 product bans with, you know, kind of a Wild West free-for-  
19 all after that that could lead to regrettable substitution  
20 but rather an affirmative attempt to guide the marketplace  
21 towards safer alternatives. Thank you.

22 CO-CHAIR CARROLL: Thank you, Tim. Let's sort of  
23 review the bidding of where we are here. I have for first  
24 interventions, and I think this is correct, I have Joe, Art,  
25 Ann and Dale. I have Mike and Meg who would like a second

1 opportunity to speak and we have approximately 25 minutes  
2 remaining in this session. We're going to have to be pretty  
3 good about time because there are planes for various people.

4 So taking all that into mind, Joe, the floor is yours.

5 PANEL MEMBER GUTH: I'll only take 20 minutes,  
6 here.

7 (Laughter.)

8 Okay, I want to make a brief remark on the  
9 transparency issue. You asked a question of whether AAs  
10 should be -- redacted AAs should be put on your website and  
11 made publicly available.

12 Ken raised an interesting, you know,  
13 countervailing -- I think you should, I advocate that you  
14 should do that. Ken suggested that, you know, making these  
15 things public might restrict, you know, the depth of  
16 analysis that people do because there is going to be  
17 scrutiny of it. You know, there are clearly places where  
18 you want to create privileges and, you know, protect  
19 analyses from disclosure to get, you know, more honest  
20 analyses.

21 But I don't really think this is a good situation  
22 for that. I mean, I think program -- for lots of reasons  
23 but maybe most importantly because DTSC just has such  
24 limited resources that I just think that public transparency  
25 is very important here, particularly if we want to think

1 about these as providing a sentinel kind of function. I  
2 mean, if the market doesn't really know what's happening  
3 it's not going to work as a sentinel to communicate, you  
4 know, to the market, influence the market.

5           So I really think that I would advocate the AAs  
6 should be made public. Redact, they're going to have to be  
7 redacted. We need to see that situation. If you don't put  
8 them on your website, you know, interest groups are going to  
9 request them through a FOIA, they're going to get them and  
10 then they'll put them out there. But it won't be as  
11 authoritative a disclosure as if it's just on DTSC's  
12 website. I think it's a real issue here how the trade  
13 secrets is going to work in that the public disclosure of  
14 those AAs needs to be done so we can see how that's working.

15           And then one other aspect of that that I want to  
16 highlight is the assessors can develop -- this is on page 38  
17 of the regulations -- their own AA process that differs from  
18 the one that DTSC develops. I think companies are  
19 developing their own processes now, some have implemented.  
20 I think they look at them as actual, you know, business  
21 assets that they developed. I have heard people are even  
22 patenting those things as business methods. So I guess it's  
23 possible to imagine that the AA process that's used itself  
24 would be claimed as a trade secret and not disclosed.

25           I think that would be very hard to stomach, you

1 know, if we have an AA process that comes out. And not only  
2 are the chemicals in the products and the alternatives that  
3 are selected or not selected, if all of that is trade secret  
4 so it's very hard to penetrate -- but even the process  
5 that's used to do the evaluation is a trade secret, you  
6 know. So I guess I want to suggest the possibility of  
7 saying that an alternative process can be used but it can't  
8 be claimed as trade secret. It can only be used if you're  
9 going to disclose that so that it can be, at least the  
10 process can be evaluated.

11 CO-CHAIR CARROLL: Thank you, Joe. Art.

12 PANEL MEMBER FONG: Thank you, Chair. I just want  
13 to touch back on the accreditation body, especially the  
14 comments that Meg made about perhaps using the UC Extension.

15 I think that's an excellent idea, however I do have some  
16 concerns. I think the UC Extension is just excellent on the  
17 educational function part of it but I'm not sure that the UC  
18 Extension would want to get into the administrative and  
19 accounting function of, you know, certification where they  
20 would have to maintain -- you know, keep track of people's  
21 continuing education.

22 So perhaps as an alternative and to jump start the  
23 process is to have DTSC actually considering forming some  
24 kind of agreement or understanding with an existing,  
25 established professional organization. I don't know what a

1 good one is but perhaps something like AIHA, American  
2 Industrial Hygienists Association. Something similar to  
3 that but product safety specific. That way they would  
4 already have the infrastructure and the, you know,  
5 mechanisms in place in terms of training, testing and  
6 maintenance of certification. Just as a suggestion, thank  
7 you.

8 CO-CHAIR CARROLL: Thank you, Art. Ann.

9 PANEL MEMBER BLAKE: Thank you, Art, for bringing  
10 UC Extension back into this. And Meg beat me to it so thank  
11 you for the plug for Extension. In addition to being on the  
12 Advisory Board for the Green Chemistry Certificate Program I  
13 have also developed curricula and continuing to develop  
14 curricula and be an instructor in that program.

15 Art, I think they do actually have that ability to  
16 track training and, you know, they do track that for several  
17 certificate programs, I'd have to double-check it. But I  
18 think your example of an existing professional organization  
19 would also be another option.

20 Also I am going to implementation again and  
21 thinking about examples that we can look at in the more  
22 immediate term of how to go about using -- authorizing  
23 accreditation bodies both to do alternatives assessments and  
24 training the trainers. And since Lauren is not here imagine  
25 me with blonde, curly hair for a moment and I will channel

1 her. Green Screen is currently doing this or is in the  
2 throes of doing that and that would be an interesting thing  
3 to look at. They are both certifying external bodies to  
4 perform Green Screen alternatives assessments -- I realize  
5 that is a sort of a smaller version of what we're looking at  
6 here, and also thinking about how to train trainers within  
7 Green Screen. So that's a very immediate source of  
8 information on this committee itself if you could look at.

9 I would also look at perhaps the Design for  
10 Environment alternatives assessment program and how they're  
11 going about -- I don't know about their training piece but  
12 at least they are certifying third parties. I haven't  
13 thought that all the way through but I think Green Screen  
14 may be a better, closer option.

15 CO-CHAIR CARROLL: Thank you, Ann. Dale.

16 PANEL MEMBER JOHNSON: I thought it was Lauren.

17 CO-CHAIR CARROLL: I'm sorry?

18 PANEL MEMBER JOHNSON: That was Lauren.

19 CO-CHAIR CARROLL: Oh, I'm sorry. Thank you,  
20 Lauren. Your hair looks marvelous.

21 (Laughter.)

22 CO-CHAIR CARROLL: Now Dale.

23 PANEL MEMBER JOHNSON: Thank you very much. And  
24 I'll keep my hair the way it is.

25 So as I was looking at this and then listening to

1 everybody else I think what comes out is that the bones of  
2 this will work and it's in the details of everything of how  
3 you actually get there. And to me what this is setting up  
4 over time is a self-policing type of process. That's what  
5 you're hoping it sets up. That, you know, there's a new  
6 philosophy that's taking place within industry or whatever  
7 it happens to be, but it's self-policing.

8           And then there's checks and balances along the way  
9 so that at least you hope to get to the old 80/20 Rule, that  
10 80 percent of the stuff comes out correct and 20 percent may  
11 not be. And that's always, you know, that's kind of the  
12 standard that's used for that.

13           Now there's a couple of interesting things in  
14 terms of certification programs. One, there's certification  
15 to create credentials, and then there's certification to  
16 create a license to do something. And those are two  
17 different things. So if I said, you know, here I am, a  
18 board-certified toxicologist, that's a credentialing type of  
19 thing. But it's what I do in relationship to that  
20 internationally that maybe makes me acceptable as an expert  
21 in certain areas.

22           But then there's a licensing part that allows you  
23 to do something. You know, I'm a licensed pharmacist. And  
24 to do that I have to maintain -- I don't do that but -- in  
25 fact I'd be dangerous if I tried to do that. But, you know,



1 there's -- you know, you have to learn how to spell drugs or  
2 something.

3 (Laughter.)

4 So we have to be careful in terms of what we're  
5 dealing with for certification. Is it a credentialing type  
6 of thing or is it a license to do something? And the  
7 critical thing here to me is that when you put in an audit,  
8 an audit part in DTSC, then the auditor has to be  
9 credentialed or licensed in the same way that the people  
10 that are doing it. If you don't you do not have the  
11 appropriate audit that's actually acceptable. And so that's  
12 something you have to be extremely aware of.

13 But to go back. I think that the aspects of this  
14 as its written will work and it's the details that's going  
15 to make it happen. And I kind of agree with the idea that  
16 this will take place over time. There's got to be some  
17 flexibility in it. You're going to learn a lot. But you  
18 can't write it so that it's just so overly-restrictive on  
19 the front end. Now when you get --

20 And I want to mention something about conflict of  
21 interest because this is something that is just inherent in  
22 the whole process. Everybody, and this includes me,  
23 everybody who works for a company gets into the product  
24 defense mode. And you tend to get into that within the  
25 first two months of coming into a company. It doesn't

1 matter what your field is, you're in a product defense mode.  
2 And you could view that as a conflict of interest but it  
3 is, in fact, the way it is within -- and it has to be. Why  
4 would you hire somebody into a company that isn't, you know,  
5 supporting the products and everything else.

6 And so the whole idea of conflicts is just  
7 inherent in this whole thing. And that's why I agree, I  
8 agree with Bill that I think you have to just end the whole  
9 idea of conflicts of interest because it's just there. It's  
10 always been there, you have to deal with that in a self-  
11 policing aspect and you hope that it comes out to the 80/20  
12 Rule. To summarize then, if I can count to five, to  
13 summarize, I think this will work and it's a matter of just  
14 working out the details.

15 CO-CHAIR CARROLL: Thank you, Dale. I have Roger  
16 and I want to -- I want just a short process check. Julie,  
17 Rich and Bruce, you have not asked for the floor. Not  
18 interested?

19 PANEL MEMBER CORDS: (Microphone not on.)

20 CO-CHAIR CARROLL: I'm sorry?

21 PANEL MEMBER CORDS: (Microphone not on.)

22 CO-CHAIR CARROLL: All right, I'll put you on the  
23 list, thank you, Bruce. Roger, it's yours.

24 PANEL MEMBER McFADDEN: Thank you, Chair. I'll go  
25 quickly here. The first thing is the conflict of interest.

1 I think at the very least the conflict of interest should  
2 be disclosed. So if the assessor has a conflict of interest  
3 -- so no matter how you might go it needs to be disclosed.  
4 There is a portion where, I think -- I think you're going to  
5 disclose the assessor's name as part of this, I believe.  
6 Maybe any conflicts of interest associated with that  
7 assessor might be kind of a middle point to get away from  
8 this economic piece. Because I don't know how you deal with  
9 that one.

10 Secondly, Bob's idea of senior leader sign-off. I  
11 kind of like that idea but I might suggest one addition.  
12 And that would be liability insurance. Some kind of a --  
13 for instance, professional liability insurance is a normal  
14 thing for a professional. And maybe to require that to be  
15 in place for your protection.

16 Ken, I like your idea of the portion of the fee  
17 going to the DTSC, though I don't know how that works  
18 regulatorily. I don't know if you can even accept it; I  
19 don't know how you go about it. But I like that idea.

20 And then Ann's idea of the Green Screen I think  
21 really makes a lot of sense because that's a process that  
22 businesses are using today to incorporate into their kind of  
23 AA thinking. And so trying to attach to something that's  
24 already being embraced in business might be a good thing.  
25 Thank you, Chair.

1 CO-CHAIR CARROLL: Thank you, Roger. Bruce.

2 PANEL MEMBER CORDS: This is a how do you protect  
3 innovation, question in the publication of the, let's say,  
4 the redacted form. I assume that the alternative will be  
5 named. Here's the problem. Five companies show up as  
6 having a chemical of concern in a product of concern in your  
7 first round.

8 Company A comes up with a solution. Through  
9 investment and innovation they come up with an answer, the  
10 other four don't. How do you protect the information  
11 developed by Company A? It's still a free market system. I  
12 mean, we still have to be -- I mean, that company should be  
13 rewarded for --

14 MS. HECK: So the way it would work is the  
15 company, if Company A believes that the alternative they  
16 have come up with is in fact subject to trade secret  
17 protection, they make that claim when they submit the AA.

18 PANEL MEMBER CORDS: Okay.

19 MS. HECK: The Department independently reviews  
20 and sees if it concurs with that determination. And that's  
21 how it would play out. So it's neither -- you know, it's  
22 neither de facto in or out as a category of information from  
23 being trade secret. The only thing that's per se out is  
24 this hazard trait information, this odd provision in the  
25 statute. So we would -- parties are free to make the claim

1 and then we would review.

2 PANEL MEMBER CORDS: Okay.

3 CO-CHAIR CARROLL: Thank you, Bruce. Okay, Mike,  
4 it's yours.

5 PANEL MEMBER WILSON: Thank you, Bill. You know,  
6 when I first read through this I was really struck about how  
7 we have -- this represents to me an extraordinary  
8 opportunity to build professional and technical capacity in  
9 California among a community of alternative assessors, you  
10 know, who continually improve their practice and so forth.

11 I went through the industrial hygiene program at  
12 UC Berkeley accredited by the American Board of Engineering  
13 and Technology. That cadre of students -- I guess I'm  
14 getting -- the point is, what does that capacity look like?  
15 What does it look like to build professional capacity? That  
16 cohort of students to this day, nine or ten years later,  
17 continues to interact. They're in different parts of the  
18 state and they all face common problems around protecting  
19 workers and also understanding environmental exposures and  
20 engineering. And they talk to each other and they get  
21 together once a year and they develop a field of practice.

22 And I guess, you know, this gets to, you know, Tod  
23 Delaney's point that what we're struggling with here in a  
24 way is that the world of alternatives assessment is not a,  
25 there is not a lexicon. There is not a dogma, in a way,

1 that we teach a certain body of knowledge and then you  
2 understand that and now you're certified, bang. It's a  
3 field that's developing. It's rife with discovery and  
4 inquiry and the need for continual improvement. So that's  
5 a, that's a model of professional education versus  
6 vocational education, if you will.

7 I think Tod's point about that -- it's actually --  
8 there's a place in the regulation where, you know, it  
9 stipulates the alternative chemical being considered in a  
10 number of ways, a number of places. But in fact we all know  
11 it's much more complicated than that. There are alternative  
12 processes and so forth that involve not chemistry  
13 necessarily but engineering, environmental engineering,  
14 finance, law issues, questions of relative risk and so forth  
15 that are sophisticated and they're complicated.

16 And so I think it would be expedient in a way to  
17 move this field of practice into a private consulting arena.

18 And I would just urge the Department not to move in that  
19 direction. That the way we can develop -- again, this is  
20 sort of Bill's point about developing a, having a 20 year  
21 vision of developing capacity in this developing field. As  
22 others have said, driving this as much as we can into the  
23 existing educational system in California. In my view of  
24 that, that includes the community colleges, the CSUs, the UC  
25 system and the UC Extension for that matter.

1           This is -- building technical and professional  
2 capacity is a process that I think can be, can and should be  
3 integrated across our existing educational system and it  
4 sort of incorporates this process of teaching student  
5 innovation that grows out of that. Professional practice,  
6 apprenticeship training of sorts, continuing education and  
7 research. And students who come to this process and  
8 recognize there are fundamental research questions that we  
9 need to answer here as we're moving into new materials and  
10 so forth. That's long-term capacity.

11           I guess it gets me back to Art Fong's original  
12 point about smart regulation and policy. How does it  
13 develop a spirit of inquiry and discovery and educational  
14 capacity in the state versus a check box, more sort of  
15 regulatory oversight? There's a spirit there that I think  
16 that's evoked here and we're getting to in this regulation  
17 but we can do more, I think, in invoking a capacity-building  
18 educational arena.

19           And so that's -- again, it's sort of -- there's a  
20 level of sophistication, a sort of cutting edge strategy  
21 that I think could be -- could be helped, could be  
22 inoculated by this process and by the regulations. Of  
23 course, you know, I'm happy to help with that in any way  
24 that I can. You know, we have a lot of experience in sort  
25 of struggling through this process at COEH.

1           On the conflict of interest side, this is -- one  
2 way you avoid conflict of interest is to move this process  
3 into the state's educational infrastructure. We did -- you  
4 know, one of the things I mentioned earlier around the  
5 training of contractors at public works projects. That was  
6 privatized previously and based in consulting firms. They  
7 were not only conducting the training and training of  
8 trainers but they were doing assessments and auditing.

9           Ultimately it was discovered that they were  
10 suffering from conflict of interest issues that diluted  
11 their credibility in a way and sort of gets to Dale's point  
12 around this sort of product defense. There was an internal  
13 conflict of interest that was developing there that we  
14 finally discovered but it took several years. I just, you  
15 know, want to encourage in any way that we can to move this  
16 into our existing educational system for all of those  
17 reasons.

18           CO-CHAIR CARROLL: Thank you, Mike.

19           PANEL MEMBER WILSON: Thank you.

20           CO-CHAIR CARROLL: Julie, I see, I see your flag.

21           You haven't spoken yet, I'm going to give preference to you  
22 and then I'll touch the others. I would ask the second  
23 interventions to be brief, please. Julie.

24           PANEL MEMBER SCHOENUNG: Thank you, Chair. Mike,  
25 I love your optimism. I might be more of a skeptic. I just



1 wanted to echo an experience that I have and it reflects on  
2 Kelly's comment about why do the scientists not bother to  
3 write a really well-written plan when you know they could  
4 and I think Tim touched on that as well in terms of how to  
5 do we ensure quality of these AAs. It would be lovely it  
6 got into the academic arena and became something people were  
7 really proud of generating and providing to the state.

8 But I think I would just -- I was remembering a  
9 few years ago working with the folks here from DTSC and the  
10 pollution prevention group and the source reduction plans  
11 that need to get submitted and how frustrated we all were  
12 with how poor the quality was. And if we could just even  
13 have a mechanism to go back and say, this isn't what we were  
14 looking for, can you actually tell us this, this and this,  
15 they would have been much more useful.

16 So I guess my suggestion is I'm not a regulatory  
17 writer; I don't know what the right language is. But maybe  
18 looking at examples of what didn't work or what doesn't  
19 provide a really high quality report such as in the  
20 pollution prevention, source reduction mandates and in these  
21 other programs around the state and try to find models where  
22 it does lead to quality reporting, I would just encourage  
23 some background on that if you have the opportunity to.

24 CO-CHAIR CARROLL: Thank you, Julie. I have three  
25 more requests for intervention and I am going to ask you to

1 take no more than a minute, please. Meg.

2 PANEL MEMBER SCHWARZMAN: Thanks. This is just  
3 specifically pertinent to the issues that have been raised,  
4 I'll save the other ones for the later section.

5 One is to follow up on this conflict of interest  
6 issue. I think there is a real difference between the  
7 people who are doing the teaching in an accreditation  
8 program and the actual accrediting organization and the  
9 assessors. So there's three different bodies here that  
10 we're talking about and I don't want to conflate them.

11 The accrediting organization obviously needs to  
12 have no conflict of interest, as I believe the assessors.  
13 But what that means is no existing financial stake in the  
14 outcome of the alternatives assessment or in the way that  
15 people are trained to do it.

16 And that doesn't mean an absence of experience in  
17 economic entities. So we want people with experience in  
18 industry to be involved in the process of how one assesses  
19 alternatives. But the outcome of an alternatives assessment  
20 should not advantage or disadvantage the person who performs  
21 the assessment, and I think that's a difference.

22 So in Extension, for example, Ann is an  
23 independent consultant who teaches in it. There are many  
24 people who have experience, 30 experience in industry, who  
25 teach in Extension. But Extension itself doesn't have any

1 economic interest or experience necessarily in any economic  
2 entity.

3           The second issue that I want to raise hasn't been  
4 talked about yet, which is the issue of disputes. And there  
5 are provisions in the regulations that allow for disputes to  
6 be raised for any action that DTSC takes at any point in the  
7 process. And something that's in the summary but I could  
8 not find in the regulation itself, probably my own problem,  
9 is on page four of the summary, which says that companies  
10 can dispute any action. Which to me includes listing of a  
11 chemical of concern or listing of a priority product --  
12 designation of a priority product. And that that action is  
13 stayed during the dispute.

14           And so since our goal here is to get to  
15 alternatives assessment, and since many of the regulatory  
16 responses don't actually hinge on the outcome of an  
17 alternatives assessment, the idea that you can put on hold  
18 any level of action by the Department during a dispute to me  
19 has ramifications for alternatives assessment and their  
20 validity and getting to them in the way that we're  
21 discussing here. I just want to raise that issue.

22           CO-CHAIR CARROLL: Thank you, Meg. Ken.

23           CO-CHAIR GEISER: Quickly just in response, a bit,  
24 to Mike's statement about the capturing of the learning that  
25 is taking place, because this is such an enormous

1 opportunity to really explore this idea of a alternatives  
2 assessment and to build our collective knowledge and all of  
3 how to do this.

4 I should have paraphrased my earlier statement by  
5 saying my learning originally arose out of in 1983 when I  
6 worked on the passage of the Massachusetts Right to Know,  
7 workers Right to Know bill. And we made no attempt, paid no  
8 attention to the market it was going to create for  
9 consultants to run in and sort of offer services to  
10 management about chemicals used in the production processes.

11 And it was, as Tim mentioned, a Wild West show. I  
12 mean, it was like just a -- there were huge abuses during  
13 that period. And I had never fully understood that a  
14 regulation often creates a market so we had missed the whole  
15 notion. So when we did the TURA program I wanted to really  
16 capture that idea and really make that a part of our  
17 learning and allow that tremendous flowering of  
18 professionals to really be a part of the growth of the  
19 program.

20 And so yes, we actually, the Toxics Use Reduction  
21 Planners, we celebrated them and memorialized them and made  
22 them very much siblings of the program. To the extent that  
23 they created their own association, they had their own  
24 awards program. Today they are a very -- and the last piece  
25 is that they are a major constituent of the program. So

1 that when the program needs support in the legislature or  
2 when the program needed to be updated they were a very  
3 important part of the knowledge and all that came back to  
4 the program to really support it.

5           The use of the university was also valuable and I  
6 will -- you know, I'm open here. I think Art's right,  
7 professional associations may be a good, a good opportunity  
8 as well. But the university turned out to be terrific. It  
9 gave the program tremendous legitimacy because the  
10 university, as is here the California system, is well-  
11 respected so it gave it a kind of embodiment of authority,  
12 of a kind of knowledge and all.

13           But what it also did was it kicked into the normal  
14 parts of the university, such that within the University of  
15 Massachusetts we began to offer courses for credit for  
16 graduate students. And then in my case actually we  
17 developed an accredited graduate program in this area so  
18 that we were producing and we were getting planners coming  
19 back to school to get a degree to go out and do this. So it  
20 became a channel for much larger learning and much more  
21 feedback so I just want to note that as well. Thank you.

22           CO-CHAIR CARROLL: Thank you, Ken. Kelly.

23           PANEL MEMBER MORAN: Extremely quickly. We've had  
24 a lot of discussion about conflict of interest and I just  
25 want to wrap up by saying I think the Department correctly

1 created different provisions for assessors and for the  
2 accreditation organization. Assessors will all have some  
3 level of conflict of interest because they will be paid by  
4 the company for whom they are doing the assessment.

5 That is actually why it is so important that the  
6 accrediting organization be independent. And that's the  
7 word that I think is probably the most important word to  
8 think about. How do we embody independence in the  
9 regulations. And the goal of that is to ensure that it's  
10 trusted by all of the different stakeholders including the  
11 state itself. Thank you.

12 CO-CHAIR CARROLL: Thank you, Kelly. All right,  
13 that brings us to the end of this session and thank you all  
14 very much.

15 We have a break now. I would ask you to be back  
16 here by 20 after, please, recognizing there's a little slop  
17 in this. We would like to kick off at 10:25 so please be  
18 back about 10:20 and then we'll have the final discussions.

19 Thank you very much.

20 (Off the record at 10:07 a.m.)

21 (On the record at 10:26 a.m.)

22 CO-CHAIR GEISER: Okay, let's reconvene here at  
23 this point in the morning on the second day to try to pick  
24 up any additional comments, any things that you didn't have  
25 a chance to say. Bill just humorously asked, do you think

1 there is any possibility that there could be anything left  
2 to say? But I'm guessing that -- not only guessing, I have  
3 evidence that there are some lingering thoughts you would  
4 have that you would like to provide the Department with in  
5 regards to improving the draft that we see.

6 One thing to note and that is we are back on-line  
7 with -- what are we calling it, the web?

8 CO-CHAIR CARROLL: Webcast.

9 CO-CHAIR GEISER: The webcast is back on and we've  
10 got some 10 to 15 people back listening to us. Thanks to  
11 those as well.

12 CO-CHAIR CARROLL: People who can't sleep in  
13 China.

14 (Laughter.)

15 CO-CHAIR GEISER: So we have about, we're going to  
16 run here -- it's going on to 10:30 here. We'll go for about  
17 an hour, a bit longer than that. We'll be leaving some time  
18 here toward the end because I'm sure, like me, many of you  
19 are interested to hear Debbie and the staff say how they're  
20 going to respond to this and what the plans are from here,  
21 ad in particular what the plans are for the Science Panel  
22 itself. So I want to leave plenty of time for that because  
23 that might ensue a bit of a discussion as well.

24 So why don't we take an hour and see where we are  
25 in regards to just anything that you haven't had a chance to

1 present and want to use this time for. So I see Dale. And  
2 we'll start with Dale and then we'll go on.

3 PANEL MEMBER JOHNSON: Okay, I just wanted to  
4 follow-up again on the conflict of interest part of it. And  
5 I know that we have some differing opinions at the table  
6 here on this particular aspect of it. And I just want to  
7 make it clear that I think it's very important that the  
8 certification and AAs can be done in-house within a company.

9 Even though there obviously is conflicts of interest and  
10 it's stated there could be financial conflicts of interest  
11 because a person works there or has stock options or has  
12 stock.

13 But I think it's very important in this kind of  
14 program which I view overall as eventually getting to a  
15 self-policing type of program. And some of the people with  
16 the greatest expertise on any product or any series of  
17 things actually are in-house within a company. And so I  
18 just want to make it clear that I absolutely support that.

19 CO-CHAIR GEISER: So I have Ann, Mike and Joe.  
20 Ann.

21 PANEL MEMBER BLAKE: I'd like to pick up on a  
22 topic that has come up a couple of time about workers. And  
23 I wish I had a better language and I'll think about this,  
24 about where to put this in the reg itself. There were some  
25 suggestions yesterday about different places where we could



1 add workers and I wanted to refine that a little bit.

2           The workers that I have had experience with are  
3 people that are using consumer products and there's often  
4 the phrase used, "intended use." And the workers, service  
5 workers particularly, are encountering consumer products  
6 sort of beyond the intended use.

7           So that's a group of people so I'm thinking about  
8 house cleaners. You know, professional house cleaners are  
9 dealing with products that are intended to be used a certain  
10 way and have a higher exposure to them. Nail salon workers  
11 the same thing with higher exposure. So it's a different --

12           And particularly these are vulnerable populations.  
13 Very often immigrant populations that have high exposures,  
14 no understanding of OSHA regulations, that those actually  
15 apply, and other things like that.

16           So I'm not sure how to define that but I want that  
17 particular group of workers to be considered, in addition to  
18 what we're thinking of in terms of like manufacturing  
19 workers and so forth. Service workers with exposure  
20 potentially to consumer products.

21           CO-CHAIR GEISER: Thank you, Ann. Mike.

22           PANEL MEMBER WILSON: Thank you, Ken. I have a  
23 couple of reflections on points that others have raised.  
24 One was actually Julie's point about, I think it was SB 14  
25 under the Pollution Prevention Program.

1           As part of the work that we did for the Senate  
2 Environmental Quality Committee and its counterpart on the  
3 Assembly side, the Assembly Committee on Environmental  
4 Safety and Toxic Materials, we evaluated, in our 2006 report  
5 actually to those bodies, we evaluated a whole series of  
6 voluntary strategies to motivate behavior change within  
7 industry sectors. And one of those was SB 14. And I'll  
8 just read a couple of sentences from our findings with that  
9 program from our report. It said:

10                   "Under SB 14 the California Department  
11 of Toxic Substances Control found that 29 of  
12 40 California firms evaluated in 1998 in the  
13 chemicals and allied product sector were  
14 significantly out of compliance. DTSC  
15 concluded the underlying problem may be that  
16 company management lacks commitment to  
17 devoting the necessary resources to evaluate  
18 source reduction options."

19 And then our commentary:

20                   "Without a robust market or regulatory  
21 driver most firms seek to avoid the  
22 disruption and costs that can accompany  
23 technological change, even when such changes  
24 are necessary for the long-term viability of  
25 the industry as a whole. As a result we

1 found that policies that could induce  
2 technological change were largely absent from  
3 voluntary initiatives."

4 So that's just a reflection on, you know, previous  
5 effort from DTSC in this arena.

6 The second was on Meg's point about the -- which  
7 appears on page four of the summary under part G which is  
8 the -- that stays any requirement, including posting of  
9 information as I understand it, in the event of a dispute.

10 We have experience with this, again, with your  
11 sister agency on the Cal-OSHA where worker health and safety  
12 violations are stayed if the company appeals the violation.

13 And so I guess I would encourage or recommend a couple of  
14 things. One is to be in touch with your counterpart at Cal-  
15 OSHA on what the experience has been, you know, with worker  
16 health and safety problems. You know, with that provision  
17 that allows the hazard to continue unchecked until the  
18 appeal is heard and resolved. I see that as inherently  
19 problematic.

20 And then my question is, is there a way to craft  
21 this regulation that incentivizes the other direction? That  
22 incentivizes companies not to raise a dispute and to make  
23 the corrections, even when a dispute is likely or they  
24 dispute, they dispute a ruling that DTSC has or what have  
25 you that motivates the corrective action rather than leaving

1 it stayed. Thank you.

2 CO-CHAIR GEISER: Thank you, Mike. So we have  
3 Joe.

4 PANEL MEMBER GUTH: Thank you, Chair. I'm going  
5 to make a couple of quick comments and then I would like to  
6 ask -- there are a couple of revisions I want to ask DTSC  
7 what their thinking is about them.

8 One is there is a provision on the effect of other  
9 laws in this draft, which is really different than previous  
10 drafts we saw last September and November, and I think this  
11 is a vast improvement. I think this is the right, I think  
12 what you have here is the right structure. Basically the  
13 earlier versions were, if other laws deal with the issue at  
14 all then you'll be hands off here. It's really only going  
15 to keep you off it if those regulations impose the same  
16 degree of regulation protection that this program would  
17 offer. And I think that's the right approach so I just want  
18 to support that. There are a couple of fine points about  
19 that that maybe I'll just talk to Colleen about, you know,  
20 off-line.

21 The second point is on regulatory responses, which  
22 we haven't talked about very much. There is a provision on  
23 page 48 which defines when no additional regulatory response  
24 is required. And part of that is that the selective  
25 alternative -- there's a certain standard for impact on

1 human health or the environment. And then there is a  
2 provision on page 52 which defines DTSC's authority for  
3 imposing a regulatory response, which is in terms of  
4 potential adverse impacts on human health or the  
5 environment. But these two standards are not the same.

6 I guess my first inclination would be they ought  
7 to be the same, for a couple of reasons. One is, I mean,  
8 these are setting out legal standards. There is going to  
9 be, you know, dispute about what they mean and, you know,  
10 there will be a whole body of law that will develop what  
11 they mean. And if we have different standards we are going  
12 to have two different fights about that.

13 But it seems like they ought to be the same  
14 standard. I mean, it seems that the standard for when no  
15 additional regulatory response is required ought to draw the  
16 same line as the line defining DTSC's authority to impose a  
17 regulatory response. So I just think those ought to  
18 conform. They ought to be symmetrical definitions of the  
19 same line that is being drawn. Because it would be  
20 logically odd to have those lines drawn in different places  
21 and create a whole or, you know, anyway.

22 And I guess the suggestion that I offer is the one  
23 that you have for defining DTSC's authority for regulatory  
24 responses, which is on page 52 in 69506.6(a). It tracks the  
25 language of the statute and we'll have to find out what it

1 means. It's probably the best you can do for now. That's  
2 the one I would say ought to just be conformed on page 48.  
3 All right. And then my questions -- unless there's a reason  
4 that you want to draw them in different places.

5 MS. HECK: We'll look back and look and see if it  
6 makes sense to conform the language.

7 PANEL MEMBER GUTH: Okay. On page 27 of the  
8 regulation, product prioritization, (a)(1) there. The  
9 Department shall consider adverse public health impacts from  
10 a chemical of concern in a product due to potential  
11 exposures during the -- I feel like this is a truncated  
12 analysis and I want to ask you why you're truncating it  
13 where you are? It's during the manufacture, useful life and  
14 end of life disposal or management of the product. What  
15 that doesn't include is sort the manufacture of the COC  
16 itself. You're just starting at the point at which you're  
17 starting to manufacture the product, okay.

18 I'm assuming that that tracks into the obligations  
19 for doing the AA. But, you know, that's just starting the  
20 analysis, it's not a full life cycle assessment of the  
21 chemical of concern or the alternatives, it's just starting  
22 at the point at which it's becoming incorporated into the  
23 product so I'm wondering about that.

24 I mean, there can be lots of life cycle impacts of  
25 chemicals of concern and alternatives that come before that.

1 And also worker exposures, all the problems with bulk  
2 chemicals, et cetera. And so I'm wondering just --  
3 obviously it's an easier problem to deal with but also it's  
4 not a full life cycle on chemical of concern or the  
5 alternative. So I wanted to -- maybe I should just ask you  
6 about that.

7 CHIEF DEPUTY DIRECTOR MADRIAGO: Let us go back  
8 and take a look at it.

9 PANEL MEMBER GUTH: Okay.

10 CHIEF DEPUTY DIRECTOR MADRIAGO: Particularly I  
11 want to take a look at kind of the context set by the  
12 statute.

13 PANEL MEMBER GUTH: Okay.

14 CHIEF DEPUTY DIRECTOR MADRIAGO: And how that  
15 relates to that. Okay?

16 PANEL MEMBER GUTH: Okay. Because, I mean, you  
17 could have differences in the chemicals of concern and  
18 alternatives that precede the point at which they are being  
19 incorporated into the product that's relevant. Okay.

20 The second point, maybe along the same kinds of  
21 lines, is bulk chemicals, page 36, are removed from the  
22 regulation -- the definition of consumer product really.  
23 They're removed from the scope of the regulation. And I'm  
24 looking at line -- on page 36, line 26. A bulk chemical  
25 placed in the stream of commerce that meets the definition

1 of a consumer product is not included, right, in this  
2 article?

3 A bulk chemical. You know, a barrel or a tank car  
4 of chemical, is a consumer product within the definition of  
5 the statute. And I understand why you are not focusing on  
6 that as a priority now, you're focusing on other consumer  
7 products. I think that makes sense for a lot of reasons.  
8 But I'm not sure why you would take it out of this  
9 regulation. I mean, if the point comes at which you want to  
10 deal with, you know, a tank car of a chemical as a consumer  
11 product, you have to write a new regulation.

12 I mean, why cut it out of the regulation would be  
13 my question? It's part of the statute, it's part of the  
14 prioritization issue for you. I just don't see why it  
15 should be carved out of the statute. It sort of sends a  
16 signal too really that not only is it a matter of timing and  
17 prioritization and letting a program develop but that you're  
18 really not interested in that issue.

19 Then the last example -- maybe I'll ask you, you  
20 know, what your thinking is on that?

21 CHIEF DEPUTY DIRECTOR MADRIAGO: We'll have to go  
22 back and take a look at that.

23 PANEL MEMBER GUTH: Okay. And then a similar  
24 thing. The regulation on page four, let's see if I can find  
25 this. The chapter does not apply to any consumer product



1 manufactured, stored in or transported through California  
2 solely for use outside California. So it's on lines 22-23.  
3 So we're going to do all this work to identify chemicals of  
4 concern, products of concern. And if they're manufactured  
5 in California, you know, but only some parts of the products  
6 are sold in California then the impacts are limited to, you  
7 know, the portion of the manufacturing activity that is  
8 related to selling products in California, even though there  
9 can be a lot of impacts on the environment, on communities,  
10 on workers, related to manufacturing the products that are  
11 shipped out of the state. And so I guess I want to ask you  
12 about that. That also seems like an undue constraint on the  
13 program, particularly, you know, obviously workers and  
14 communities comes up in that.

15 CHIEF DEPUTY DIRECTOR MADRIAGO: And so we talked  
16 about this a little bit yesterday.

17 PANEL MEMBER GUTH: Yes.

18 CHIEF DEPUTY DIRECTOR MADRIAGO: We'll go back and  
19 take another look at this. I think both of these, I think  
20 part of our thinking was we really were trying to, I guess,  
21 in the regulation itself prioritize our work somewhat to  
22 those products that are truly being used by consumers in the  
23 common understanding of the word. But let us go back and  
24 look at both of these again in the context of the statute.

25 PANEL MEMBER GUTH: I guess the -- just one thing

1 and then I'm done. On that point, it seems like it might  
2 actually be creating some analytical problems. I mean,  
3 there's a process that goes on in a plant. You're creating,  
4 you know, a million units, some part of them are sold in  
5 California. But, you know, it is not naturally divided in  
6 the process into parts that are just for California and not  
7 so there's going to be some kind of weird analytical  
8 judgment that has to be made of attribution that, you know.  
9 It just seems like it's creating analytical difficulties  
10 also. Anyway, that's it.

11 CO-CHAIR GEISER: Thank you, Joe. Meg.

12 PANEL MEMBER SCHWARZMAN: Thanks. The first  
13 point, just to quickly pick up on the issue of workers and  
14 how we're defining the work place, that Ann brought up.

15 There is a nice description I think on page 28 of  
16 the regulation where it says worker -- line 37 through 39.  
17 "Workers, customers, clients and members of the general  
18 public who use or otherwise come in contact with the product  
19 or releases from the product in the home, work place or  
20 other location."

21 And in support of this I just want to offer some  
22 data from the Department of Public Health, the Occupational  
23 Health Branch, that looks among many other things, at  
24 occupational-related asthma, and has found in looking at  
25 those cases that are associated with the use of cleaning

1 products the majority of those cases are bystander  
2 exposures. So in that sense we're all workers. We are all  
3 working in work places that are hopefully cleaned and so we  
4 are all workers with potential bystander exposure.

5           So I think sometimes we tend to narrow our  
6 understanding of a worker. And looking at the data from the  
7 Department of Public Health that doesn't hold up. So that's  
8 a good statement but it's not distributed far enough in the  
9 regulation to actually have that impact, it's just in that  
10 one place.

11           The second point. Thank you, Mike, for picking up  
12 on this dispute issue because I think you said it better  
13 than I did about how to motivate the correct -- you know, of  
14 course there has to be a dispute clause. And I wasn't  
15 advocating against a dispute clause, it's just how it's  
16 written and what it's motivating.

17           And the point that I didn't mention that you  
18 hinted at was, how it's written in terms of the burden of  
19 proof that seems in this iteration to be, or in this writing  
20 to be placed on DTSC before action can proceed. So that was  
21 a clearer statement of that.

22           A third point is something that hasn't been  
23 brought up yet. My language is deteriorating as we move  
24 through this. And that is in the definition of reliable  
25 information; this is page 14 of the regulation. Line 66 has

1 a whole list of how reliable information can be obtained and  
2 the definition of it. And it has to meet one or more of the  
3 following criteria and line 15 is US FDA Good Laboratory  
4 Practices.

5           There's a lot of work that's been done on this  
6 that I won't go into here but the basic point is that Good  
7 Laboratory Practices, it's a certification program that was  
8 developed decades ago in response to loosey-goosey practices  
9 within external labs or private labs. And it's aimed to --  
10 so it addresses record keeping, what cages -- animal  
11 husbandry, those sorts of issues.

12           It doesn't at all address the quality of the  
13 study. How the research questions are asked and answered.  
14 There are many, many examples, particularly within the  
15 endocrine disruption research literature of places where  
16 even, for example, the control animals didn't respond to  
17 estrogen. And so if you're looking at whether a chemical  
18 has an estrogenic response your control needs to, you know,  
19 show that that species of animal that you've chosen --

20           So all I mean to say is GLP doesn't say anything  
21 about the quality of the study. So it's okay, you don't  
22 need to exclude GLP practices but it shouldn't be a way of  
23 defining a quality -- of reliable information.

24           A fourth point is I wanted to just echo something  
25 that Joe brought up yesterday, which is whether there is a

1 way that we can bring back into the regulation in a  
2 manageable way the issue about notification of change out of  
3 a COC. So I just wanted to underscore that. It was  
4 something that was unwieldy in the previous versions, but is  
5 there a simpler way to at least have the Department get some  
6 information when that has happened, would be, I think,  
7 enormously useful to the Department.

8 My last couple of points are something that I  
9 mentioned yesterday about non-chemical alternatives and I  
10 just want to focus on the page in the regulation that deals  
11 with that, which I think is page 9. That can't be. No,  
12 it's page 9 of the summary is what it must be, 9 of 16. And  
13 this is just language where it talks about -- at the bottom  
14 of the page in Step 3, Initial Screening of Alternative  
15 Chemicals. I think there is language that needs to be  
16 adjusted here. There's really nice provisions in laying out  
17 how alternatives assessments should be done that were  
18 pointed out by Odette and Debbie yesterday about the  
19 question of necessity and I think this is part of how that,  
20 asking the question, is it necessary.

21 From Debbie's previous work within the San  
22 Francisco Department of the Environment with the use of  
23 herbicides, I use it as a teaching example all the time and  
24 people find it very compelling. About how to draw the  
25 bounds of an alternatives assessment based on what questions

1 you're asking. The idea that the City of San Francisco  
2 reduced herbicide use by 90 percent and has replaced some of  
3 those, the role of herbicide with tolerance of meadows over  
4 lawns and use of goats and other non-chemical alternatives  
5 is really creative and interesting to me.

6           Of course they maintained the use of chemical  
7 herbicides in places like SFO where you can't just put goats  
8 out to, you know, range freely. And so I think that just  
9 acknowledges that there are some very appropriate uses of  
10 chemicals but they need to be targeted. And that's one of  
11 the roles of a creative alternatives assessment. So just to  
12 pull in Debbie's past work on that, which I think is a  
13 charming example.

14           Finally --

15           DIRECTOR RAPHAEL: Meg, I'm sorry, what is the  
16 comment on that? Is it that it's not strong enough or that  
17 it's --

18           PANEL MEMBER SCHWARZMAN: No, the comment is where  
19 the language is looking -- sorry, page 9 of the summary,  
20 Step 3, Initial Screening of Alternative Chemicals. So some  
21 of the language focuses on chemicals and there are ways to  
22 keep that expansive.

23           And my final point is just around something that  
24 we haven't talked about much, which is who determines  
25 whether something is economically and technically feasible

1 as an alternative. And I know this is a thorny issue and we  
2 don't, I won't go into it in great detail. I appreciate  
3 very much there is something excellent in the regulation  
4 that looks at externalized costs to the public as well as to  
5 costs of adoption of a new technology.

6 But I think great care needs to be taken in  
7 wording this so that technical feasibility today -- you  
8 know, what's technically feasible today, or infeasible,  
9 sorry, may actually be feasible in six months or a year.  
10 And that there -- is there a way to write this provision in  
11 the regulation to feed innovation and adoption and advantage  
12 interesting new technologies that are a little bit more  
13 expensive if you look at them through a couple of lenses but  
14 not holistically at the outset?

15 Because the other portion of this is, companies  
16 are very good at being able to quantify the impact of  
17 technological change within their company, the economic  
18 impact. We have many fewer tools of quantifying the  
19 externalized costs to the public. And so it's excellent  
20 that that provision is in there but I'm not sure how much in  
21 actuality those balance sheets will really come out to  
22 reflect reality. So can we look at the wording of that in a  
23 way that it leaves room to bring forward new alternatives?  
24 Thank you.

25 CO-CHAIR GEISER: Thank you, Meg. And I have now

1 Bob, Roger and Kelly. Bob.

2 PANEL MEMBER PEOPLES: Thank you, Chair. Well,  
3 first of all I know we have already established that I am  
4 not a regular reader of regulations. But I want to assure  
5 you I --

6 CO-CHAIR GEISER: This is changing, Bob?

7 (Laughter.)

8 PANEL MEMBER PEOPLES: Yes. I want to assure you  
9 I am a reader of these regulations. And to that point I  
10 would like to just let you know that on page 29, line 40,  
11 the word is "safer alternative" not "saver alternative."

12 CO-CHAIR GEISER: I thought that was actually kind  
13 of cute.

14 PANEL MEMBER PEOPLES: I did too.

15 CO-CHAIR GEISER: I noted that.

16 PANEL MEMBER PEOPLES: I did too.

17 CO-CHAIR GEISER: It's a saver, it's a saver  
18 alternative.

19 PANEL MEMBER PEOPLES: That's a very trivial  
20 correction, all right. So a couple of other thoughts here.

21 Number one is under the provisions for  
22 determination of safer alternatives. There is a line in  
23 here that says "and the DTSC determines there is a safer  
24 alternative." So I'm assuming that brings up the point it  
25 was not identified in the alternatives assessment. So the



1 question in my mind is, how is that determination going to  
2 be made because I don't see anything in here that provides  
3 guidance on making that decision?

4           Is it done by the staff, is it a recommendation by  
5 the staff to the director who makes the call on that? Is  
6 there an opportunity for a special panel or a committee,  
7 maybe a standing committee to deal with these kinds of  
8 things. And if that's the case, how would you appoint that  
9 committee? What are the skill sets that would be  
10 appropriate for that committee?

11           And that ties to me to a question that the  
12 Director asked me at dinner last night and that was, how to  
13 use this Green Ribbon Science Panel in the future. And so  
14 one thought that came to mind is that as you go through the  
15 implementation there are going to be questions that arise  
16 and this committee may be a resource to help you think  
17 through the responses to those questions.

18           There may be subcommittees that could be formed  
19 out of this committee to deal with discrete issues. For  
20 example, things like the judgment of safer alternatives that  
21 I just pointed out. And possibly a role in the future as  
22 you begin to gain experience on what is working and not  
23 working and suggestions on how to further improve the  
24 regulations and the process. So those are at least some  
25 preliminary thoughts to try to respond to your, your

1 question.

2 I'd like to at this point in time also acknowledge  
3 -- most of my colleagues did this yesterday and I chose to  
4 wait until today to see how the meeting proceeded.

5 (Laughter.)

6 And that is to -- I want to acknowledge the staff  
7 and the leadership of our chairs who have, I think, made it  
8 possible and have evolved this Green Ribbon Science Panel  
9 into one that I feel has become very productive and one for  
10 which now I feel was a good return on the investment of my  
11 time to do all this. I appreciate all the inputs and  
12 perspectives of the colleagues around the table that helped  
13 make this very productive enterprise.

14 I do want to acknowledge the DTSC staff and the  
15 Director because without what you did it would not have been  
16 possible for us to do and contribute what we have so greatly  
17 appreciate that.

18 And then finally I am going to end with a quote,  
19 and I shared this with a few folks yesterday. Because I  
20 have for a number of years in my current capacity as  
21 Director of the Green Chemistry Institute struggled with the  
22 complexity of the issues that we are facing for  
23 sustainability around this world and beating myself up  
24 because I can't figure it out, okay. It's a big  
25 intellectual challenge. And that is part of what this Green

1 Ribbon Science Panel and the staff are trying to do with  
2 these really forward-looking regulations.

3           And I read a quote from Steve Jobs. Maybe it's  
4 appropriate that I'm in California and I share this with  
5 you. But the quote kind of speaks to the challenge we're  
6 facing and that quote was simply: "Simple can be harder than  
7 complex. You have to work hard to get your thinking clean  
8 to make it simple. But it's worth it --" And that's what I  
9 think captures the essence of what we're trying to do so  
10 thank you, Chair.

11           CO-CHAIR GEISER: That was a very nice thought,  
12 Bob, thank you. That was very good, very appropriate, I  
13 think you're right. Roger.

14           PANEL MEMBER McFADDEN: Thank you, Chair. I would  
15 ditto all the wonderful things you just said, Bob, to  
16 everyone around the table and to the leaders all the way  
17 across.

18           I would like to draw attention to page three of  
19 the summary in reference to the Responsibility for  
20 Compliance. Specifically related to retailers. So I guess  
21 what I would ask is that there be more, that there be some  
22 thinking here about how specific you are going to define  
23 products, I think that the issue around the retailer  
24 responsibility here. Because as I understand it there's a  
25 tiering of the manufacturer having the primary requirement

1 to respond, followed by the importer, followed by the  
2 retailer.

3           Retailers carry in some cases hundreds of  
4 thousands of potential products which are identified with  
5 what we call SKU numbers, which identify very specifically a  
6 product. For us to be able to -- I shouldn't say "us" but  
7 for retailers to adequately respond to this there needs to  
8 be a clear definition of the product. That is, a  
9 description of the product so that we know specifically how  
10 we're being affected and where we're being affected in this  
11 particular case. And I don't see that here.

12           For instance, there's no reference to time frame  
13 on response. Maybe there is, I didn't see it. So the  
14 retailer, my understanding is it would default to the  
15 retailer if the first two didn't adequately comply. And  
16 then they would need to be posted so there's still another  
17 kind of piece here that the retailer wouldn't need to  
18 respond until there's failure -- that it's on the list of,  
19 the failure to comply list.

20           Is it the product specifically that's listed on  
21 that list? May I get a clarification on that. Is that what  
22 will be listed? The product, the manufacturer, a SKU  
23 number? How will we be able to cross-reference to that?

24           CHIEF DEPUTY DIRECTOR MADRIAGO: We're trying to  
25 be as specific as we can be. We don't -- and in the

1 regulations it says what we're going to list when we list a  
2 priority product. We don't include SKU number because we  
3 had gotten some feedback last year about some problems with  
4 doing that because of the way those change out. But any  
5 suggestions that anyone wants to offer us, whether today or  
6 later, on how we can get very specific about that, would be  
7 helpful.

8           PANEL MEMBER McFADDEN: The reason I say this is  
9 that if you use product names, that can be very problematic  
10 because many companies will have names very similar -- they  
11 may have a group of products that are named very similar to  
12 each other. And so it can be very confusing for compliance  
13 purposes for companies to be able to be in compliance if  
14 they're not certain and there is not clarity to this. So I  
15 would suggest that maybe there be some thinking around how  
16 that, how those will be communicated to the retailer,  
17 eventually to the retailer. And then the retailer being  
18 able to respond adequately within the time lines that are  
19 set.

20           So the name of the -- this one last thing. The  
21 failure to comply list, is it a list of companies and  
22 products or just products?

23           CHIEF DEPUTY DIRECTOR MADRIAGO: The list is going  
24 to have as much information as we can have on it.

25           PANEL MEMBER McFADDEN: Okay.

1 CHIEF DEPUTY DIRECTOR MADRIAGO: So it will be, it  
2 will be -- actually how we'll sort it, I don't know. So it  
3 will have a very detailed description of the product. And I  
4 will reach out again to our retailer association, which has  
5 been quite helpful to us, and work with them specifically on  
6 that. So we'll have as much information as we can get on  
7 the product, it will list the name and other information on  
8 the manufacturer or the importer or whoever it is that has  
9 failed to comply. We'll have information about the  
10 requirement that's related with the non-compliance and  
11 certain other things that are listed.

12 PANEL MEMBER McFADDEN: Is there -- when the  
13 manufacturer or importer submits data are they telling you  
14 the names of the retailers in the state of California that  
15 they sell that product through?

16 CHIEF DEPUTY DIRECTOR MADRIAGO: Um-hmm.

17 PANEL MEMBER McFADDEN: Okay. That could be  
18 useful. That could be useful.

19 CHIEF DEPUTY DIRECTOR MADRIAGO: Yes.

20 PANEL MEMBER McFADDEN: Because that would help.  
21 Because many of those products are to be sold through  
22 multiple retailers so --

23 CHIEF DEPUTY DIRECTOR MADRIAGO: Exactly.

24 PANEL MEMBER McFADDEN: In a few cases it might be  
25 that a retailer might be exclusive to a product but more

1 often than not there's multiple retailers that are involved  
2 in this.

3 CHIEF DEPUTY DIRECTOR MADRIAGO: Yes.

4 PANEL MEMBER McFADDEN: So thank you for the  
5 clarification. I think all you can do to make that clearer  
6 so that there's a real clean handoff there, it would really  
7 be appreciated. Thank you.

8 CO-CHAIR GEISER: Thanks, Roger. And Kelly.

9 PANEL MEMBER MORAN: Thank you, Chair. I just  
10 have three points that I want to make that I think are kind  
11 of fairly big picture here.

12 The first one is that after thinking about this  
13 overnight and thinking about why was it I was uncomfortable  
14 with the standards, environmental standards, environmental  
15 impact standards, and you were so nice to introduce your  
16 fellow agencies that participated in this and so forth, I'm  
17 realizing that part of the problem here was that the folks  
18 representing the environmental side weren't in the room. I  
19 had suggested before that you talk to the Water Board and  
20 Fish and Wildlife Service. I also had some discomfort with  
21 the air, the listing of what defines an air impact. And  
22 that was the same thing, you know, maybe these folks weren't  
23 at the same level.

24 Of all of those folks to consult with the ones  
25 that you probably want to have in the room from now on are

1 the Water Board folks. And the reason for that is -- there  
2 is actually a technical reason for that, which is that when  
3 it comes to non-human impacts of chemicals there is aquatic  
4 life and the aquatic environment and there is the non-  
5 aquatic outdoor environment, which is largely populated --  
6 the species we most care about are mammals so a lot of  
7 mammal testing is done. So there's a lot of mammal data and  
8 that plays into the human data. There is very little plant  
9 data. I'd love to have us be able to be stewards of plants  
10 but I'm recognizing that that's really not quite there.

11 But the aquatic environment is by its nature  
12 different because you are sitting in or swimming in  
13 completely immersed in the aquatic environment. And the  
14 kinds of species that develop are different and their  
15 sensitivity is different because they are getting a much  
16 more concentrated exposure to the pollutants.

17 And just as an interesting example, I recently had  
18 occasion to compare for a series of pesticides detected in  
19 surface water, hundreds of pesticides, aquatic life  
20 standards and the drinking water equivalent levels for human  
21 drinking water. In three-quarters of the cases the aquatic  
22 life protection standard was a number and it was a lot lower  
23 -- well lower and often a lot lower, an order of magnitude  
24 or more lower.

25 And because of that difference and that



1 sensitivity, and there has been for a long time the use of  
2 aquatic life as a sentinel for the environment. That's why  
3 you see that in Canada when they're trying to develop  
4 preliminary environmental standards, they're starting with  
5 aquatic life standards. And we can't capture everything  
6 here. We know we can't, we know there aren't the data sets.

7 But there is a much more robust development of this work on  
8 the water quality side. So I would urge not only that you  
9 consult with them but that you bring them into the room with  
10 you as you do the revisions.

11 And importantly, this is part of how Cal/EPA  
12 becomes more of Cal/EPA. And I know that that's a  
13 commitment in this administration, to really improve that  
14 collaboration among Cal/EPA. I've seen some interesting  
15 improvements in that area over the last decade. I've  
16 actually seen some tremendous improvements among one of your  
17 sister agencies, the California Department of Pesticide  
18 Regulation.

19 And there I want to note, because I think it's  
20 actually important for everyone, that they are revisiting  
21 their programs to protect surface water quality, which is  
22 the main water end point that we'd be protecting from  
23 consumer products, not entirely the main one. And although  
24 unlike you they aren't writing a big regulation to do that  
25 because they already have this law, they are going back and

1 examining their authorities and making adjustments in  
2 procedures and other things. So they're touching on exactly  
3 the kinds of things that are the same policy and  
4 implementation questions that you all are asking.

5 And I know this seems very different but it is  
6 remarkable to me how similar they are. For example, they're  
7 asking questions about the standards. What is it that is  
8 the right place where we say, there might be an  
9 environmental problem, a water quality problem. What  
10 defines that? What defines that specifically related to a  
11 chemical in a product? So DPR and the Water Boards are  
12 asking that question, you and the Water Boards are asking  
13 that question, the same question.

14 Both of you are trying to establish processes that  
15 account for the pathways to surface water, groundwater and  
16 through wastewater treatment plants. Again, the same kinds  
17 of questions, the same understanding.

18 Both of you are looking at tools. As you move  
19 into the next phase and develop guidance you're going to be  
20 looking at tools. How are we going to understand how this  
21 product is used in the ways that it goes through. How are  
22 we going to screen for those water quality impacts.

23 There has been some work here. The brake pad  
24 modeling was actually the first such modeling that I had  
25 ever seen where someone took product and connected it to

1 water pollution. DPR and EPA have been asking that question  
2 in a different way and now DPR has actually tasked a staffer  
3 to be working on this kind of, how can we do simplified  
4 modeling tools so we can use them for screening. So very,  
5 very similar interests. So I think there is much in common  
6 in that that kind of recognizing those nexuses is part of  
7 what makes Cal/EPA stronger as a group of agencies than it  
8 is as individual departments.

9 I want to move on to two less important points but  
10 just -- well, not necessarily less-important. One is that  
11 there has been a lot of disconcertion in the world of people  
12 who wind up managing things at end of life like the  
13 household hazardous waste community.

14 I have in my email box a whole list -- there's a  
15 list from CalRecycle and a list from DTSC of all the things  
16 you can't put in the garbage. And they keep hoping that  
17 somehow this law will be the way that those things get dealt  
18 with. And, you know, they're thinking about -- for  
19 everybody who has not looked at those lists lately,  
20 fluorescent lights, batteries, electronics, mercury items,  
21 paint. Some of these things, reformulation alternatives  
22 aren't necessarily the answer, as Meg said earlier. You  
23 know, fluorescent lights, at least for now, the technology  
24 has some level of mercury in them.

25 So the alternatives assessment process doesn't

1 seem like a good fit for getting to the management there.  
2 And I guess what I'd ask the Department to think about is to  
3 clarify whether this process -- I wouldn't suggest reducing  
4 your authorities here, but really to think about what you  
5 want to tell back to policy makers about whether this  
6 process is the process by which that kind of thing gets  
7 managed. Because I think there is some confusion about that  
8 at a higher level. Is this the authority we're going to  
9 handle those things or is this authority really not a good  
10 fit for those kinds of things. In which case the  
11 Legislature needs to be thinking about what its policy  
12 decision is in that area.

13           And then just finally I think overall I'm still  
14 struck by the challenge of doing this within the  
15 Department's resources. And I really hope that there can be  
16 a way to fund this so that we have scientists and engineers  
17 working on these decisions about how consumer products are  
18 designed. And not, with all due respect to lawyers, the  
19 lawyers and politicians who will be making those decisions  
20 in the Legislature if we don't have an adequately funded and  
21 structured program. And I think the Department has done  
22 everything in its capacity at this point in the regulatory  
23 structure. So thank you.

24           CO-CHAIR GEISER: Thank you, Kelly. Rich.

25           PANEL MEMBER LIROFF: Just very briefly. I just

1 want to put an exclamation point on Megan's comment earlier  
2 about going through the language to look at design  
3 alternatives. I think just through and through -- and it  
4 sort of picks up on what Kelly just said, I think. I mean  
5 through and through, every single line has to address the  
6 question of, are we encouraging people to ask the question,  
7 do we need it? How do we design out the chemicals?

8           You know, we tend to have a conversation just like  
9 this at the Water Board and Air Board and this is the green  
10 chemistry panel. But, you know, there's an awful lot of  
11 thinking coming out of the world of biomimicry and bio-  
12 design, bio-inspired design, about how does nature do it?

13           And I just want to make sure that the assessors --  
14 I'm almost tempted to suggest that the curricula might have  
15 some component in the training of the assessors of some  
16 familiarity with the concept of bio-inspired design and  
17 biomimicry.

18           Because in fact we need to look at that world to  
19 see how we can create more efficient products. Products  
20 that, that are of reduced toxicity. And one way of reducing  
21 toxicity is simply just getting rid of the chemicals. Yes,  
22 ultimately fresh designs. Everything is made out of  
23 materials, everything is ultimately chemical. But  
24 nevertheless you get the idea that, you know, hey, maybe you  
25 can accomplish something differently. Sort of like the

1 whole discussion about getting out of brominated flame  
2 retardants. Can we use different materials so we don't need  
3 to add any chemicals that are by themselves retardant? And  
4 I think through and through these regulations have to be  
5 informed by and inspired by that vision. Thank you, Chair.

6 CO-CHAIR GEISER: Thank you. Tim.

7 PANEL MEMBER MALLOY: Thank you. I just had a  
8 couple of comments. One had to do with the regulatory -- I  
9 mean, I have lots of comments but they're kind of, you know,  
10 very specific and I'll send them, just as I'm sure lots of  
11 other people are going to do that, so I don't want to  
12 belabor those. But one kind of over-arching one on the  
13 regulatory response.

14 The statute lists a bunch of regulatory responses  
15 as included but not limited to. The regs, when they list  
16 the regulatory responses, say "here are the regulatory  
17 responses." So I would suggest that you include a backstop,  
18 omnibus-type provision in here, that doesn't restrict you  
19 further than the regulations restrict you. And that kind of  
20 goes along further than the statute restrictions.

21 And that goes along with this -- I think you might  
22 also want to consider a regulatory response that involves  
23 some kind of positive aspect of identifying or screening  
24 alternatives to make sure they aren't regrettable  
25 alternatives pared with your authority to ban a particular

1 product.

2           The other thing I just wanted to mention was -- I  
3 don't know, Kelly mentioned this in her last part about --  
4 I'm totally fine with lawyers not being involved making  
5 decisions, you don't have to apologize. Just as long as  
6 scientists stay out of the law, you know, right? Can't seem  
7 to get you out of there, though.

8           (Laughter.)

9           But what I wanted to say is she brought up this  
10 idea that, you know, in order to do this effectively you  
11 hope that there's some support for it. And I don't mean to  
12 be kind of the guy who, you know, touches the third rail all  
13 the time but I honestly have some real concerns about this.  
14 And I raised it in that last section and this is our open  
15 section and I don't know how other folks come out on this.  
16 But I see that there's some real problems in terms of the  
17 funding.

18           One obviously is the effectiveness of this  
19 program. Can it actually really work without some  
20 sustainable funding for it? But also there's opportunity  
21 costs associated with how the agency has been left to deal  
22 with this, which is, you're going to have to fund it by  
23 taking people, I'm assuming, from other programs, right, and  
24 what are those programs? So what is the net effect of that?  
25 Do you end up with both an ineffective program because it's

1 under-funded here and also hobbled a program somewhere else  
2 because you've had to steal resources from them. And I  
3 think there's multiple things that could be done here.

4 Just let me say, in terms of our own role to be  
5 played. I'll just point out that in the statute not only  
6 are we kind of charged with advising the Department on  
7 regulations, we're also charged with providing advice to the  
8 Department on the implementation of this entire article.  
9 With which respect to which, I think, covers thinking about  
10 resources for it.

11 And I heard a few things today. One thing I heard  
12 was the way you'll do the resources is you have to see what  
13 the budget is. You'll submit the budget and, you know,  
14 that'll go through whatever that process is. So I guess one  
15 thing I would say is it would be nice to see a budget  
16 submission that reflects what you think the actual cost of  
17 doing an effective program would be.

18 Obviously I am somewhat apolitical so maybe I'm  
19 just being naive here but it seems like -- it is not  
20 apparent to me that anyone has explicitly identified the  
21 cost of what this program would be and asked the Legislature  
22 to fund it. Whether that's funding through a non-existent  
23 general budget or whether it's funding through highly  
24 unlikely new fees.

25 A little depressing but I think, you know, there



1 ought to be some at least some meaningful and significant  
2 effort to obtain that funding. And all right, if you can't  
3 get it, folks who are interested both in industry and the  
4 NGO groups and all interested stakeholders can't achieve  
5 that then you can't achieve it. But I think that that  
6 effort ought to be made or else this program, I fear, will  
7 become a reflexive-type program as opposed to an  
8 interactive, mandatory program.

9           The other possibility, of course, would be this  
10 fee on certification of the accrediting body and then a fee  
11 on the assessors. I think that's a great idea for funding  
12 that aspect of the program. I don't see how that could fund  
13 the other resource-intensive efforts that have to go on  
14 under the program. And that leaves us with a program, some  
15 type of program fee, which I would suggest -- I believe the  
16 Legislature ought to consider it.

17           My hope is that in the remaining five or ten  
18 minutes that maybe we'd hear something from the rest of the  
19 Panel because I think the Legislature needs to hear from  
20 people who are looking at this comprehensively in the way we  
21 are. If we feel that there is a need for additional funding  
22 that they ought to hear that loud and clear. Maybe I'm just  
23 the only guy who feels that way, that's fine, but I think  
24 it's worth talking about.

25           And then lastly I think this other problem of the

1 information collection authority is just -- it is so  
2 insidious in how it affects many different aspects of this  
3 program. And I think it undermines the program when the  
4 agency has to come up with what are, I believe, very  
5 creative and elegant approaches to dealing with a lack of an  
6 authority.

7 But the idea that we have a new, revolutionary  
8 program that begins with the agency and everybody involved  
9 with one arm tied behind their back, to me doesn't seem like  
10 a particularly wise way to develop public policy. So I  
11 think that's another area in which maybe the Panel might  
12 want to perhaps develop at least a sense of what the Panel's  
13 view is. I made my view clear on both of those and I'm kind  
14 of interested in what other folks are thinking. Thank you.

15 CO-CHAIR GEISER: Thank you, Tim, and thank you  
16 for that invitation to others to make comment on that. So I  
17 have Bill, Mike and Jae and Julia.

18 CO-CHAIR CARROLL: Thank you, Chair. I'd like to  
19 take us back to the de minimis provision just for a moment  
20 please. First of all, I think it's greatly improved in this  
21 version. But if I understand correctly, we have lost the  
22 intentionality component associated with it. I wanted to  
23 point out something that may turn out to be a technical and  
24 implementation problem associated with this.

25 One of the reasons that the original thought

1 about, talking about intentionally-added materials is  
2 because many if not most industrial streams of chemicals are  
3 mixtures of material. And particularly they may be mixtures  
4 of very similar materials. So when you talk about, when  
5 you're talking about getting a chemical to the extent of  
6 being 99.9 percent or .99 percent in other cases, that's a  
7 laboratory grade, that's not a production grade of  
8 materials.

9           And so particularly when you come to the case of  
10 having a chemical of concern that might be, for example, the  
11 C8 version of something but C7 and C9 are fine, it's going  
12 to be very difficult to provide a C7 or a C9 product that  
13 doesn't have a significant amount of the C8 product in it.

14           This becomes a particular acute difficulty if you  
15 don't happen to be the person who is working with the  
16 chemical of concern. If you are two or three steps down the  
17 line. And for example, to make plasticizers, as an example.

18       By the time you get to that final plasticizer you've done  
19 at least two or three previous reactions in the stream, each  
20 of which may have side products. Some of which will be  
21 removed by purification steps but some of which may be  
22 carried forward to the end. So you as a user of this  
23 material may have legacies from two or three reactions ago  
24 that you're either unaware of or that you certainly didn't  
25 intend to put in there in the first place.

1           So I guess I'm suggesting that if it's not  
2 possible to maintain the intentionality clause to say that  
3 you're using a chemical of concern because you intend to use  
4 it, then there needs to be at least some consideration of a  
5 reasonable expectation of the presence of the chemical of  
6 concern to avoid having a situation where it simply turns  
7 into a huge game of gotcha, looking for 100 parts per  
8 million of various chemicals in every product known to man.  
9 I just don't think that passes the workability test.

10           And I think it's something that I'm not prepared  
11 to lay out exact language for you right now but I want to  
12 flag it as something that will probably show up in later  
13 comments but distinctly needs to be addressed because of the  
14 nature of the materials. Thank you, Chair.

15           CO-CHAIR GEISER: Thank you, Co-Chair. We have  
16 five people who wish to speak and we have about ten minutes  
17 so please keep your comment to about two minutes. Mike.

18           PANEL MEMBER WILSON: Thank you, Ken. Just  
19 picking up on that and this fundamental point that Rich  
20 Liroff just made. What we're trying to do here is inspire  
21 and motivate change ultimately and behavior change. And  
22 that is, we are motivating a paradigm shift from the  
23 question of "does it sell" to "is it necessary?" And that's  
24 a big, it's a big lift. And so we have created a number of  
25 incentives and sort of market drivers within this regulatory

1 structure.

2 But sort of getting to Tim Malloy's existential  
3 questions about, you know, funding and also -- it was  
4 funding and information collection authority.

5 The third one that he didn't address but that he  
6 mentioned earlier was the compliance and enforcement  
7 mechanisms that DTSC has at its disposal. Are those aligned  
8 properly so that companies are motivated to do the right  
9 thing? And if they're not are the penalties sufficient to  
10 motivate change? Because we know that as we are trying to  
11 motivate change there are always leaders and there are  
12 always going to be laggards and there's going to be a lot of  
13 people in-between working on the calculus of where they're  
14 going to go.

15 And maybe we are uneasy with strong regulatory  
16 tools as we're launching this program. But I would  
17 encourage the Department to look with very clear eyes about  
18 the need for strong tools to protect and support those  
19 companies that are leaders and that don't want to be  
20 undercut by laggards.

21 The problem with a weak regulation is exactly  
22 that, that it makes it uneasy for the leaders to step out  
23 because they're worried that the laggards are not going to  
24 be penalized, if you will.

25 And I'll end here just with an example that in the

1 California textile industry we had a real problem,  
2 particularly in Southern California, with sweatshop labor  
3 that was undercutting a domestic textile industry in  
4 California. And it was Pete Wilson that organized an  
5 launched a targeted enforcement program that consisted of  
6 the Division of Labor Standards Enforcement on wage and hour  
7 violations, Cal-OSHA on health and safety and the US  
8 Department of Labor on child labor violations that launched  
9 targeted sweeps through Southern California to identify  
10 those companies that were undercutting legitimate California  
11 firms.

12 And that was a -- that program, you know, had an  
13 effect on the California economy that I think was positive  
14 and it was also a strong enforcement regulatory component  
15 that was launched by a Republican Governor. So I would  
16 encourage the Department to look at those everywhere we can  
17 within the regulation. Thank you.

18 PANEL MEMBER SCHWARZMAN: No relation?

19 PANEL MEMBER WILSON: Yeah, no relation, Pete  
20 Wilson. No conflict of interest. He is not a brother-in-  
21 law or a brother. Thank you, Meg.

22 CO-CHAIR GEISER: Jae. Briefly, briefly.

23 PANEL MEMBER CHOI: Thank you, Mike. I guess you  
24 covered the laggard versus leader, you know, in every  
25 regulatory environment so I skip that remarks.

1           My remarks, in overall the draft which is, you  
2 know, 68 pages, you know, I think is a tremendous job that  
3 the DTSC team did. You know, with this kind of a page,  
4 which beats all of the IRS documents and Homeland Security,  
5 et cetera.

6           (Laughter.)

7           But regarding Tim's remarks that he wants to hear  
8 from, you know, other members here. You know, in the  
9 private sector the last five to seven years, you know, we  
10 always experiencing still, because of economic situation  
11 globally, that we are fighting, you know, every minute in  
12 terms of resourcing. You know, head count, et cetera, no  
13 question about it.

14           One of the criteria that I see that really stands  
15 out here as a result of, you know, the same kind of resource  
16 constraint at DTSC. Which, you know, I think really to me  
17 is, you know, DTSC has really innovated in a way that  
18 outsourcing -- considering outsourcing. Considering -- you  
19 know, try to not cover or include the regulations that are  
20 covered by other agencies, okay. So that is a good start.

21           Because once we try to concern too much about  
22 which area we had to cover more and more, et cetera, then I  
23 think the complexity involved, as Bob brought in Steve Jobs'  
24 quotation, the simplicity is real important. And also  
25 using, utilization of website. In all these innovations I

1 can see every section of the 68 page so I really  
2 congratulate that.

3           So in terms of head count our resourcing is always  
4 there, I think, you know. So I don't have solutions, Tim,  
5 but I think we needed to innovate, DTSC as well as the state  
6 of California. And then try to mobilize the talents, you  
7 know, you have available. I think otherwise, I mean, you  
8 have two decisions, whether we're going to go ahead with  
9 this or we cannot, you know. So that kind of a, you know,  
10 live and die situation. I think innovation is in the  
11 requirements and to mobilize your talents. Thank you.

12           CO-CHAIR GEISER: Thank you for a good point, Jae,  
13 very good. Julia.

14           PANEL MEMBER QUINT: I just wanted to respond to  
15 Tim. I fully support the need for more resources to make  
16 this a sustainable program within DTSC, which is what I  
17 think it has to become. I mean, this has been a great  
18 effort. We all applaud particularly this latest version of  
19 the regulation and all the hard work that's gone into, you  
20 know, to getting this product.

21           But really, I mean, the tough part is ahead. How  
22 do we make this happen? How do we implement it? How do we  
23 give DTSC the experience that they will need in looking at  
24 this new -- This is a new initiative. Nobody has done this  
25 before, California is the first.



1           And I would like to find out if this -- I'm on  
2 another scientific guidance panel for the bio-monitoring  
3 program. And as a panel we did write in support of the need  
4 for continued resources for that program. And it was  
5 legislatively created and we were able to do that without  
6 violating Bagley-Keene.

7           So if I don't know if, you know, it's the wish of  
8 this group to do that kind of a support letter but I think  
9 -- and I don't know if it's possible, that's the legal  
10 question. But I just want to go on record that I think that  
11 that is something that if people are willing that we should  
12 do, if that's what we feel is needed here.

13           CO-CHAIR GEISER: Thank you. This is kind of  
14 going to bleed over a bit into the last section here where  
15 we ask the Director to sort of say something about what  
16 happens next so I encourage you to continue to make those  
17 comments. We have Rich and Meg left.

18           PANEL MEMBER LIROFF: Two points quickly. First  
19 just to add on what I said before about biomimicry. There  
20 is in fact in the last two years a program out there that  
21 provides certification in biomimicry. That's not exactly  
22 the right word, bio-inspired design. So certainly there are  
23 curriculum elements that have been developed over time that  
24 arguably could be integrated into UC Extension or whatever,  
25 whoever ends up doing the accreditation.

1           On this issue of budget and budget advocacy I just  
2 want to harken back to some ancient experience of mine. I  
3 was on the EPA Endocrine Disruption Screening and Testing  
4 Advisory Committee in the late 1990s and, you know, we came  
5 up with this very ambitious program for what US EPA should  
6 do about developing screens and tests for endocrine  
7 disruptors. And it was ambitious. And it was an  
8 environmentally inclined federal administration at the time  
9 but they came in with a budget that was basically sorely  
10 lacking in the resources necessary.

11           And the way we worked it at the federal level was,  
12 in fact I was at World Wildlife Fund at the time, and we  
13 teamed up with the American Chemistry Council. And we both  
14 went in and said to the Legislature, look, you know, more  
15 resources are needed. And I think we were successful in  
16 adding to the resources that the federal EPA had requested.

17       Because the federal EPA was constrained in terms of, you  
18 know, what they could publicly say about what they really  
19 needed. I mean, it was the President's budget driven by the  
20 Office of Management and Budget.

21           So I would suggest that there may be some  
22 opportunities. I don't know exactly how the legislative  
23 process works here in California. But if necessary I think  
24 members of the Panel, if they're strongly moved and they're  
25 California citizens, I guess, to lobby the Legislature. I

1 don't know if I'm off the reservation in saying all this.  
2 They probably should. If the program needs resources then  
3 the panelists should get in the trenches and say so.

4 CO-CHAIR GEISER: Meg.

5 PANEL MEMBER SCHWARZMAN: Thanks. Two brief  
6 points. One is just to support Tim and Julia, and I think  
7 if I understand what Rich is saying. And I'm inspired by  
8 the experience on the bio-monitoring panel, which is a  
9 similarly legislatively-created panel and subject to Bagley-  
10 Keene and all that. And there could be more discussion with  
11 our legal folks and stuff off-line about how something like  
12 that happens.

13 And also it's interesting for me. You know, there  
14 is going to be an Assembly hearing on this and they have  
15 asked several members of the Panel to testify as individual  
16 members of the Panel about our experience on it so it's  
17 interesting for me to hear that -- I would never represent  
18 consensus but that there is a bunch of discussion about this  
19 and I think that's something that we can relate to the  
20 Legislature in that setting.

21 On Bill's point about how de minimis deals with  
22 impurities. I think he raised a very valid point and I see  
23 a potential solution to it. So mixture is a reality in  
24 terms of commercial products and impurities are an equal  
25 reality and sometimes the biggest problem. So the disease

1 burden from the use of Agent Orange was from an impurity,  
2 namely dioxins. So they are not just -- "impurity" sounds  
3 incidental and from a health and environmental standpoint  
4 there can be non-incidental. That's the reason for the low  
5 level of a de minimis exemption, which I fully support.

6           So the solution I think lies in how the chemical  
7 is identified when DTSC chooses a chemical of concern and  
8 identifies it. And so we have dealt with this question a  
9 little bit or we have encountered this issue in developing  
10 Plum, the database I referred to yesterday.

11           So in looking at -- just as an example list one of  
12 the lists that is in Plum is the Stockholm POPs list. And  
13 because of the methodology we used in generating the list we  
14 took a very, we kept meticulous, I can say because it was  
15 the chemist who did it, records of any changes that we made  
16 to the original list. And they are all on the main page of  
17 that list on the website so that everyone can see it under  
18 "modifications to the original list."

19           And as an example with the Stockholm POPs  
20 convention, they listed two isomers of brominated flame  
21 retardants. One is BDE-47 and the other is BDE-99. And  
22 those are very common ones and they were singled out by the  
23 Stockholm Convention.

24           However, when you look at the commercial products,  
25 they are all mixtures. And so the language here is we

1 understood the intent of the convention to include other  
2 isomers of PBDEs besides those for which specific cast  
3 numbers were given such as mixtures of isomers in commercial  
4 material. We therefore included the following isometrically  
5 undefined compounds that are hepta-bromo, hexa-bromo, penta-  
6 bromo and tetra-bromo biphenyl ether. So I think that point  
7 is a critical one and that the Department can successfully  
8 address it in how compounds are identified as chemicals of  
9 concern.

10 CO-CHAIR GEISER: Okay, we have just maybe two  
11 minutes, Joe.

12 PANEL MEMBER GUTH: Okay, I'll use less than that.  
13 I just want to respond to Tim's request for responses to  
14 the argument he's made.

15 You know, I think resources are obviously a  
16 problem. But, you know, there are other problems that are  
17 very large also. I mean, the Legislature didn't really  
18 enact a comprehensive chemicals policy here. There are  
19 enormous problems with DTSC's inability to collect  
20 information, with data gaps, with transparency, the trade  
21 secrets. Regrettable substitution, you know, is a problem  
22 that's going to continue.

23 So I don't -- I think that this is a very good  
24 implementation of AB 1879 but that there are problems in  
25 that statute that need to be addressed to really -- for the

1 Legislature to actually create a comprehensive policy here  
2 and resources is part of it. So I guess that's how I would  
3 frame the problem.

4 And so it may be we're stuck with running this as  
5 a pilot to see how it works, to show that it can produce  
6 something, so people can be on-board with it. And then at  
7 that point think about what it takes to really make it a  
8 complete chemicals policy.

9 CO-CHAIR GEISER: Thank you, Joe. And thank you,  
10 Tim, for raising that issue of how we might use the  
11 Committee as well.

12 This sort of I think wraps up the time that we had  
13 allocated for kind of a general discussion about anything  
14 that was left, not covered. We really appreciate the  
15 patience and direction, discretion I should say, of the  
16 Panel in focusing on these three questions that the  
17 Department really wanted us to focus on. But we also wanted  
18 to provide time for more general discussion and I think  
19 we've had that and that feels quite good.

20 At this point we're kind of wrapping up the  
21 morning. I want to turn this over to the Director and her  
22 staff to sort of talk in particular about, you know, what  
23 are their next steps or particularly those relevant to the  
24 Panel.

25 But I hope, Debbie, you might also say something

1 to what you think of this idea of the Panel actually  
2 engaging in some kind of statement of support or whatever.  
3 We, I think, acknowledge that people have dedicated a lot of  
4 time to this. I think it's largely because many of us are  
5 very committed to making sure that this program is  
6 successful. And now, I think, might be successful in word,  
7 it needs to be successful in implementation. And so, you  
8 know, I think anything you might suggest we might do to  
9 support you in that area might be a good idea.

10 I think what I'll do is turn this over to you and  
11 then maybe at the end turn it back to Bill and I just to say  
12 a few comments toward the end here.

13 DIRECTOR RAPHAEL: Thank you, Co-Chairs. So what  
14 I am going to do in the next ten minutes is start off  
15 letting Odette tell you some logistical sort of next steps  
16 in terms of the reg process itself and what will come out of  
17 that. And then I'm going to go up about 20,000 feet, but  
18 not quite. I want to talk a little bit about my charge to  
19 you in the next two months and in the next two years. But  
20 I'll start with letting Odette take it.

21 CHIEF DEPUTY DIRECTOR MADRIAGO: Okay, thank you,  
22 Debbie. And thank you to all of you, you have given us some  
23 very helpful input on our three burning questions as well as  
24 some other aspects of the regulations.

25 In terms of next steps, as Debbie explained

1 yesterday, this is the informal draft. So other than the  
2 Bagley-Keene rules that surround the meetings of the GRSP,  
3 we don't have a lot of strict rules that affect how we  
4 interact with stakeholders. So for the next month and a  
5 half or so we are expecting to have a lot of meetings with  
6 individual stakeholders, expect to get in a lot of written  
7 comments. I'm hoping that a lot of you will send in your  
8 individual written comments to us.

9           And then we will again have our internal, very  
10 robust policy discussions within the Department and decide  
11 what changes we need to make as well as a lot of tweaky  
12 little improvements, some of which you've pointed out today.

13           Then we will go into the formal Administrative  
14 Procedures Act process for adopting regulations in  
15 California. And so then we will have an official draft of  
16 the regulations along with a lot of supporting documents, in  
17 particular a very detailed Statement of Reasons. Those will  
18 be publicly noticed and we will start a 45-day public  
19 comment period. Towards the end of that there will be a  
20 public hearing. Once we get those comments then we will  
21 look to see if we need to make further changes. If we do  
22 then we will probably have a second -- we will have a second  
23 comment period if we have to make substantive changes.

24           When we get to the end of the road where we are no  
25 longer making substantive changes and we feel this is it,



1 we're ready to make these our regulations, then we will go  
2 to final adoption. The regulations become officially  
3 effective 30 days later. But given the nature of them a lot  
4 of our work can begin well before that in terms of  
5 implementation.

6 In terms of timing we're looking at some time in  
7 the first quarter of next year to begin the official 45-day  
8 public comment period.

9 In terms of concluding the process and having the  
10 regs become final we're looking at either summer or fall.  
11 And that is going to depend upon whether or not we do need  
12 to have a second 45-day public comment period.

13 And I think that's about it. Debbie, did you want  
14 me to address their question about providing input to the  
15 Legislature or did you want to address that in your remarks?

16 DIRECTOR RAPHAEL: Go ahead.

17 CHIEF DEPUTY DIRECTOR MADRIGO: Okay, all right.

18 So I'm going to primarily address this maybe from a legal  
19 standpoint and Colleen may need to jump in here. I think  
20 there are Bagley-Keene constraints in terms of how many  
21 people actually sign on to a letter. It certainly needs to  
22 be, you know, less than a quorum, I believe. Colleen is  
23 nodding.

24 And just keep in mind. One of the things that  
25 happened last year is that when a group of you, even though

1 you are well less than a quorum, submit a letter to the  
2 Legislature or elsewhere, it gets viewed as being the  
3 consensus opinion of the Panel, even though it's not. So I  
4 just caution you to be cognizant of that fact, whether  
5 you're submitting comments to the Legislature on funding  
6 issues or when you're submitting comments to us on the  
7 regulations themselves, you know, out of respect for your  
8 fellow colleagues on the Panel.

9           So I think probably, you know, to the extent that  
10 individual members want to provide their feelings about the  
11 need for funding for this program. Meg's suggestion that  
12 anyone who has been asked to or who wishes to provide  
13 comments during the Legislative hearing on December 8.  
14 Again, providing those comments as individuals. That's  
15 certainly a good avenue to do that and you can provide  
16 individual letters. So I'll let Debbie -- oh.

17           MS. HECK: I would just echo Odette's sentiment  
18 that the cleaner and gives rise to fewer negative  
19 perceptions approach is certainly to proceed as individuals,  
20 given the Bagley-Keene constraints and the fact that there's  
21 no explicit authority for that type of action in your  
22 charge. So the closer you stay to the explicit authority in  
23 the statute, which is to advise the Department when you work  
24 collectively as a body, the better off you are.

25           So when you depart from that I would say, less

1 concerted action. Individual actions where you speak for  
2 yourself. Then you don't have to worry about Bagley-Keene  
3 appearance problems or this perceived consensus where there  
4 isn't one, problem.

5 DIRECTOR RAPHAEL: Thank you. So in the next two  
6 months. Odette talked about the fact that this is an  
7 informal reg process. And Julie asked early on yesterday,  
8 what does that really mean? And for me it's such a gift  
9 because it's a time -- it means that if you want to come  
10 talk to us you can do it as a stakeholder, as an individual,  
11 and we can have a robust discussion back and forth. You can  
12 say, what were you thinking and why -- I see it a different  
13 way. So it's a wonderful opportunity for our reg writing  
14 team to have some robust discussions still.

15 I would like to ask you to do something that I ask  
16 all the staff who report to me in my capacity as director to  
17 do and that is to come with solutions, not just problems.  
18 And so some of you had said that. You said, well, I'll get  
19 back to you with how you do it. I would like to invite you  
20 to really help us in that way.

21 So for example, when I hear Meg and Bill go back  
22 and forth about the intentionally added and think that there  
23 is agreement or not agreement, I still don't know what the  
24 answer is listening to them. And so I would like to ask  
25 that either they or anyone else give us an idea of how we

1 can achieve the end.

2           One of the benefits to spending a day and a half  
3 with you is that you really understand deeply what we are  
4 trying to accomplish. And so you also understand some of  
5 the policy calls that have been made and you understand our  
6 constraints. And hearing you in your own words speak back  
7 to us what you've observed tells me that you deeply  
8 understand where we're all coming from, so I don't think  
9 there is any mis-communication here. So take that as my  
10 vote of confidence that you understand the problems we're  
11 trying to address and come back with some suggestions to  
12 them.

13           Sometimes in your comments you ask us, you address  
14 it in terms of a question. Are you trying to do this? This  
15 seems like a good idea. So we have really done our best job  
16 here so we need your help if there is something specific and  
17 that would -- you know, that advice or request is to every  
18 single person in this room or listening on this webcast.

19           I think that's really important, especially before  
20 we get to that formal process. Because now is the time, you  
21 give us language and we get to say, well that's confusing,  
22 or what did you mean, or did you realize that has an  
23 unintended consequence. We can go back and forth. Let's  
24 not waste that opportunity in the next six weeks. It's a  
25 very, very wonderful opportunity.

1           In terms of resources. I think Jae really said  
2 something that, you know, this idea of looking at existing  
3 resources and trying to be innovative. And I have tried  
4 very hard in the last month or so to think about what's in  
5 my power as director to do. Because when I look at the  
6 funding situation for DTSC, it's dismal. It is much worse  
7 than I understood when I became director. I had no idea.  
8 So I just want to put this out there. It's truly, it's  
9 truly robbing Peter to pay Paul.

10           And I don't know that we can keep paying Paul  
11 because we've got to do some, what the Governor calls  
12 "genuine inquiry." This idea of taking a look at our  
13 statutes and what our authorities are now and can we give up  
14 anything? So we have some very serious questions to ask as  
15 an agency, even if green chemistry weren't on the table.

16           So because it is on the table and it's deeply  
17 important to this administration, and to the Department  
18 itself who feels a big investment in this -- I have been  
19 trying to look around and figure out, how can we find and  
20 tap into some of those other resources? So when Roger says,  
21 you ought to talk -- I think it was you, I don't know who  
22 told me, Goggle. You know, you ought to talk to Google, you  
23 know. Great, help me do it, you know.

24           The other place I'm looking at right now very  
25 seriously is EPA. I had a wonderful conference call with

1 Steve Owens who will be leaving at the end of the month but  
2 also Paul Anastas and Jared Blumenfeld. So I have got  
3 commitment from all three of them to look at real resource  
4 help for us. They see California as very much the proof of  
5 concept of a lot of where the green chemistry initiative,  
6 using regs to drive innovation is hitting the road. The  
7 first place.

8 And so they have committed help. Whether it's  
9 looking at their ACToR database, whether it's engaging DFE,  
10 whether it's giving us access to toxicologists or designing  
11 guidance documents for an AA, you know, outside of the  
12 National Academy process. So I am definitely reaching out  
13 to that as well.

14 So when I ask you to bring me solutions not just  
15 problems, I mean that in term of resources too. This is --  
16 you know, you're not my board of directors in that sense.  
17 You are certainly our advisory body and so ideas for ways to  
18 get access to other resources, whether they come from  
19 industry people who are so -- I mean, I just met the most  
20 phenomenal leaders in industry in industry in the last four  
21 and a half, five months of me being director. But it is so  
22 inspirational to me and makes me realize how much knowledge  
23 there is out there to help and aid the Department.

24 So I would ask each of you to think about what  
25 kind of resources and help you can bring in a real way. So,

1 I mean, that this person is willing to fund a contract or  
2 this person is willing to do a workshop. Whatever that  
3 thing is that can help us.

4 When I think about the role of the panel. Again,  
5 there's resource limitations. It's expensive to bring all  
6 of you together, I have to say. I mean, you know, we fly  
7 you in, you stay at a hotel. We don't feed you but we give  
8 you water. That's the cheap part. So anyway -- and so  
9 clearly I don't want to waste your time. And I am very  
10 happy to hear the comments that people feel like this isn't  
11 a waste of their time and I really don't think it is.

12 And also I want to make sure that the Department  
13 gets the most out of you guys as I can. And I have to say,  
14 we've done a pretty good job of that. Odette is very good  
15 at getting things out of people and she's done a good job.  
16 As are the co-chairs on that.

17 So when I look future, in terms of the reg itself  
18 my sense is, unless there is something very radical that  
19 comes up out of the interaction with stakeholders where we  
20 discover that there is a severe unintended consequence or a  
21 missed opportunity that is very significant, I can't imagine  
22 that we'll have another face-to-face on the reg.

23 What I could imagine is that we have a phone  
24 meeting on the reg. So that probably would happen around, I  
25 don't know, sometime in the APA process. But I don't know

1 if that's the right time or the legally appropriate time.  
2 But that's -- I'm not thinking there will be a face-to-face  
3 on the reg unless something really unusual comes up that I'm  
4 not seeing right now.

5           After the reg is working its way through the  
6 summer and it's time for us to look at how do we do this and  
7 what does it mean to put guidance documents together, what  
8 does it mean to create a certifying body. I think it would  
9 be wonderful and I fully expect and hope that you will  
10 engage. I mean, if we're talking about the university  
11 extension programs or a professional organization they  
12 should come and do presentations. We can open up the  
13 structure, it doesn't quite have to be as formal, you know,  
14 kinds of things when we are talking about how we implement.  
15 So I am really looking forward to that.

16           I will also be looking at the makeup of this body.  
17 Are there voices that are missing, perspectives that are  
18 missing? I'm not giving anybody permission to leave just  
19 yet but I will take those under consideration as well.

20           So my sense is, from a resource capacity, is that  
21 we might, we probably could afford one face-to-face a year.

22           There will probably be phone meetings, committee meetings  
23 when we're not doing, you know, such a formal regulatory  
24 process. It could be that the committee has subcommittees.

25           I don't know if it was Dale or Robert that was saying that.



1 You know, that that might be a really good use for this as  
2 well. And so I'll be looking to my co-chairs for their  
3 advice, assuming they're willing to keep on with us on this.

4 So, you know, in closing I have to say that I am  
5 very honored by the feedback that we've gotten. Hearing  
6 words like "creative, smart, innovative, optimistic." Those  
7 are lovely words to hear. For all of us to hear, not just  
8 for me. And I shared those with the Secretary of EPA just  
9 to let him know how the dialogue was going.

10 Clearly, as many of you have said -- what I take  
11 away is the bones are good but there's details that need to  
12 be worked out. We don't want to have unintended  
13 consequences, we need to make sure that this is workable for  
14 people and workable for our agency. So I hear that loud and  
15 clear and as you work with us to bring us those solutions  
16 and those options, those specifics. Those will be well-  
17 received.

18 We have our work cut out. I think it's an  
19 incredibly exciting time for the state of California. I  
20 guess that's, you know, in this bleak economic environment  
21 there's all sorts of articles talking about how we as a  
22 state are very hard on our businesses. And I would say that  
23 if there is one thing the Governor has told me is that if  
24 what this does is drive business out then we have not  
25 succeeded. And so it is very much our intention to think

1 about ways to do this in a way that rewards innovation, that  
2 creates a level playing field, that I heard over and over  
3 again, and that is truly workable and meaningful.

4 So with that, those are our marching orders and we  
5 are moving forward and I thank you all so much for your  
6 help.

7 CO-CHAIR CARROLL: Thank you, Chair. And I want  
8 to thank the Department, the Director, all of you and all of  
9 you in the audience who have come and listened for a day and  
10 a half and those of you who submitted public comments, to  
11 the few stalwarts on the web who have hung in there with us.  
12 And that's just for this meeting.

13 And remember, this is sort of at the end of, what,  
14 a three year process. So we have come a long way with each  
15 other. We have actually come to the point of being a  
16 reasonably functional group despite the fact that we come  
17 from very different backgrounds.

18 So I'll thank you once again for your investment  
19 in the committee and for your tolerance of me personally as  
20 a chair, thank you.

21 (Laughter.)

22 CO-CHAIR GEISER: And I'll likewise say the same.  
23 It's been a great pleasure and certainly an exciting ride  
24 that we have been through here. Three years. There were  
25 moments back there, maybe a year ago, where it was looking

1 pretty tentative and difficult and I wasn't sure where we  
2 were going. But I think we pulled it through and I think we  
3 have been very significant in making this draft and this  
4 enterprise a real contribution to California.

5           There is much that has to be done from here on,  
6 you're totally right, to really make this work and all. I  
7 think that I speak for Bill and I in wishing you great  
8 success with it.

9           We -- I don't know, I'm talking to Bill about our  
10 continuation here. But the fact that you want to continue  
11 the committee, the Panel's work I think is terrific. And  
12 I'm hoping that everyone here would continue to want to be  
13 on this and working with us.

14           And with that I would just sort of salute all of  
15 us and maybe ask for a big round of applause for everybody  
16 here and all the hard work we have done.

17           (Applause.)

18           CO-CHAIR GEISER: We stand firmly adjourned.

19 (Whereupon, the Green Ribbon Science Panel Meeting was  
20 adjourned at 11:54 a.m.)

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## CERTIFICATE OF REPORTER

I, RAMONA COTA, a Certified Electronic Reporter and Transcriber, do hereby certify that I am a disinterested person herein; that I recorded the foregoing California Department of Toxic Substances Control Green Ribbon Science Panel Meeting; that I thereafter transcribed it into typewriting.

I further certify that I am not of counsel or attorney for any of the parties to said meeting, nor in any way interested in the outcome of said matter.

IN WITNESS WHEREOF, I have hereunto set my hand this 9th day of December, 2011.

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RAMONA COTA, CERT\*478